

<400> 7831

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 ttcccccttct catttattgt atcttgectg ctgtctgtct gctgactaat aagttcatta 120
 ttccacagat cagcaacctt gctagcatat ggttcacctc cctctttctg tccatctttg 180
 ctactggaat cctggagatg aggtggagtg gtgtcggaat cgacgagtg tggaggaatg 240
 aacagttttg ggtcatcggg ggtgtctcgg cacatctctt tgctgttttc caaggcttgc 300
 tcaaagtgct tgctggaatt gacaccaact tcaactgtcac ctccaaggcc tcggatgaag 360
 acggagactt tgccgaacta tacatgttca aatggaccac ccttcttatt cctccaacaa 420
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<210> 7832

<211> 545

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220089c09d1

<400> 7832

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 aatacatagc tactccagaa aactggaagg cacgtagta ttacaaataa aacaatacca 120
 caaagttcgg ttctagtttg ttctcttatg catcttctat aaacaactgc acataactta 180
 aacataacgg ctacaaaaca acaattataa ttacaacca aaacacaata cactacactt 240
 gtcttttggg cttctagcag ttaatgccac actcctcaac atcaggacca gtgaccttg 300
 tggatgaatg atcaattcta acccacaaga gtgagaaaat ggatgcaagc agaacggacc 360
 acaccaccac aatggttggg gttctgtttt ggcgcctcat gagaccttg aagaaagggt 420
 atagatggat gatcacccaa aatgcaaaga aaagcttacc aaagaggggt cccaagatt 480
 ggtagccact gatgatggca tacgagatgc cagcatccac cccaccaag tttattatga 540
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<210> 7833

<211> 426

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220089c10a1

<400> 7833

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caagtgattc tgatagtgat agttcctcag cctctggggtc tgatgcaggg tcaccaaaaa  180
cctgattcat tctgtcagat ctcagatatt taaagattag atagtgatat gcaatgtttg  240
gctagttagt ttttttcccc catccagatt tagctgttgg tttgtaaagg aagtattctc  300
aaggccacct atgatacctac tgatgcagta tggcgggggtc cttttatcgc aactgttgca  360
ctactgctat aaggccttat ttgtgataac aaactaatgt aaaatatatg gtagaatgtg  420
atgata                                     426

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<210> 7834

<211> 415

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220089c10d1

<400> 7834

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aacctagttt catcccatatc tcgaatgtca tgcgcttcga tatcgcttgg cactctgttg  180
acattcacca tcagagacta acctatttcg ctacaaagag ctaccataaa ttcaagggtcc  240
ccaagggtcc ctgatgcgtt catcacgtgg aacacattca atgcttgcta ccctgttgca  300
gaaacacctg gcctacaaac tgacaacca atctctcata aaatgcttgt aacttctgac  360
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<210> 7835

<211> 471

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220089c11a1

<400> 7835

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 tttgttttta ttaccttact tacacctctc tatgggtctag accaaataaa aataaatgtc 180
 tggaagtgc gatctgcagc tacaagtgtg cttaagctga cactctccga gtggagaaca 240
 ttcacaagtg agtgaggcta atggatcttg aatccagcaa gtgttgggac acatcaaagg 300
 actcttgga gacaattctg ctcttgtgct accaaagcct tgggtgtgga tatggggact 360
 tgagcatttt ttcattgtat gtttacacca gcacatttgt tgaagatatt gaacattcta 420
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<210> 7836
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220089c11d1
 <400> 7836

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 gttggaacaa ttactgccc atgtgcatag agcaaagaac aggccactga atgcgccctt 180
 aatagcccct taaaccatcg ctacctttag ataagccaac gagagaaaaa cgggccataa 240
 cggttgagtc gagcaatgga tctgccgggt gccgccaggc accaaaaatg cctgttgcca 300
 ctgcagacga ccagaccact gccatggcca cggcttaaaa agcatgtgcc ctctggagga 360
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 atca 424

<210> 7837
 <211> 515
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220089c12a1
 <400> 7837

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gaacatcctg cttttttctt atccgtatga agaattctat cctcaccaca ctaaaaccct 180
 cttaactgta acttcatgtg atgacgattc taaacgggag acatacttga ccttagaatt 240
 tagaagttca tatgcgtaga aaccactgg aaggggaaaa aaccatcata gagtaagatc 300
 agggattgtc ataagaacca tcgtttctac tctagaacac tagagaaagc acattcttct 360
 attggaaaag ctaacgcacc cttcctaaag ggctgttcga gaaatccagg attccttact 420
 tcgcatgttc aggtgctggg ctaagctccc aatgaaggcc tgagcttttg agaagagctc 480
 ttgccatttt actcctgcaa gctcctgtac tgcttgaagc tcttcatcca tgacct 536

<210> 7840
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220089d02d1
 <400> 7840

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 tataagaggc atgaagaaat ctagccatac gacactgaac ccctcacaac agatactcac 120
 tctggtgatg aactaaaca ggcaacatac cagacgttag gactcatatg atcacatggg 180
 cacaaaccca ttcgaaggcg aaaaaagcat catgcaatag aatcatgggt actcataaga 240
 accatagatg ataatccaga acacgataga aatcacatta tgccattgga acagctaattg 300
 cgccctgcct aataggetca aggaccagcc caagattcct catttcgaat ttctacatgc 360
 ttgcagaagt aacgaacgaa ggccctcagcc tccggaacga gctattgccc atgaacggct 420
 ccaagctcac aggtgcttc aagctcttca tccatgaac 459

<210> 7841
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220089d03a1
 <400> 7841

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 tttcattctg cgacacagct acctgctttt attgataact caccgtttca tgtgaattct 120

agcattcaca agatcacaag aggggcatct gcgggaaaag tatctggtgt ttttgaggcc 180
 agtaatgctt ttgatgctat gaaatttgca tccatttcga ggttccatcc tcattcttta 240
 cctgaatatc gtgaaagttt agctactggc agtctttaca acttttcaag taccattaac 300
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 atgagttcaa ctgggaacct agctg 385

<210> 7842
 <211> 477
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220089d03d1

<400> 7842

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 tataagggaa caaaattaca tatgaacaac aaagatgacc atgaaaacaa aatcagcaaa 180
 gaacccttga aaccacaaat gatgctcatt agcacaagga aactgcaaag tgccacattg 240
 accattcaca gctagccaaa attttaagct tcagtttaggt cattctctaa agatgttagga 300
 tggtagcagt actccatgca gaaatattag gaaaataacg gataacaatt aaatcagtga 360
 cttcattegg gttatgtacc ttaacttcca acaactcttg caaggctcct ctatagaaaa 420
 aaattttgag ccccttttcc taccagctcc aactcctctt gcttgaacga gcaaaaa 477

<210> 7843
 <211> 405
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220089d04a1

<400> 7843

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 cataccctca catcaggcac atctatggtc cagaccactt cgatctattc aaggatttcc 180
 ctgatccatg acaaaatcga tcgtatttta cgtgcgttcc ttgccatagg gttagatggg 240

atggtggcct gtggggatgg gaactgggggt cgtgtcagat tgattattga ggcaatgatc 300
 acatatatca agtgttcgct ttattttgcc gagaggaaga catgggttatc tgagtgtcag 360
 gcaagttcca cacctgcacg agcttatttc gtcctttct aatgg 405

<210> 7844
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220089d04d1
 <400> 7844

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 catggaaaaga gatcatcttt gggaacttac aaagggggaa ctgagataaa tgaggaaggc 120
 aataacacat atgtgcggta ttcagccaaa gccacattg gaaaaatatg tccatcgaat 180
 gagtcatgaa ccaagctgtt actgaggtgt actccaagag tgtctttagtag gggccaatcg 240
 ccatcttcta actgagaatt catgacataa ctttgcctgc tgatgaaggg gagttggatc 300
 tctctgaggc tgcttagcat gaattagagc catcagaagc ccaagatgta tgtacaacat 360
 ttgatcgac 369

<210> 7845
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220089d05a1
 <400> 7845

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 cattttcacc gttcatggat ccagtaagcg tgtggggcaa cagcccttg gcgacggtgg 120
 atcccagag ccatgacctc atcgagaggg agaagcgccg tcaatgccgt ggaatcgagc 180
 tcattgcctc cgagaacttc acctgcttcg acggcatcga ggccctggtg cgcgctctta 240
 caaacaata ctccgagggc gtgcctggca accgctgcta cggcggcaat gaatacatcg 300
 accagatcga aaacctctgc cgctcacgcg ccctccaagg cttgcacctc gacgccaat 360
 cctgtggcga taacgtccag ccctactccg gctccccggt caact 405

<210> 7846
 <211> 490
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220089d05d1

<400> 7846

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 tcaggctaac aaaattaaac atgaaatcat cgacaaagaa acttcaaact tttgaattga 120
 aacaccatgg cgataaaccc tatcaactccc aggaaaggaa gacacatatt tcctttttct 180
 acatttctgc actttgtgac gaacttgagt gacacaattt agtagaaagc ggtatgggtg 240
 aacctaatcc ttggacttaa tttcagatac caggaagcca ggcttgtcta acaaggcaga 300
 gaacttttca acatcagctt tgagatcttc aatagccttg ttgatgacga gacccttgct 360
 gaaatccttg acaagttcgc catgctcctt ctggatcttc agtgagagag tgacagcacg 420
 gtgatggaac tcaccaatct gctcaaagtc tgtgtcaacc aaaccctag aagtcatggc 480
 tggggcacca 490

<210> 7847
 <211> 482
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220089d06a1

<400> 7847

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 ctaatgaaga aggaaaagag gaagccaaat ggcagtggga aggagacttg aatgccacca 120
 tacaaaaagg gttcaacaag cttttggagt ctgcaagtac tgaatcatct cttagtctca 180
 tagatagtcc attacaagtg atatggcttg actcagggcg gatcccaaag tcgtgcttca 240
 gtaacttgaa ctctttgact gtggacggat gccaatTTTT aacagatgtt gtcataccct 300
 tctatttact tcctttctta actaatttgg aagaattaca agtccgaaag tgtgggtctg 360
 tggaaagcat atttgacgtg aaaacagcta tgggagtggg agcagcagcc tttcctagac 420
 ctctcccttt tcctcaaga aattgacttt aagaggctgc ccaacttgag aatgtctgga 480

at

482

<210> 7848
 <211> 523
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220089d06d1

 <400> 7848

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 gcatggcaga gttcagatca gtttccaatg ggatatgata tctccattcg aatatcactt 180
 ctaacagctt gtctgttttg actgtacctg cacacaaact ttccatectc ttgcaatact 240
 ttactgtgaa ttccctccaag gacgggaaac ttaaaactccc tttgtagaac cttctcagct 300
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 attcatcccc ttccctctgtt gaagacacta tctcttcaat tgaatcacac ctttttatct 420
 tcaactgtttt gagttgaccc aaacttcttg ctgttgagga tgtgaacaaa tatagcagac 480
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<210> 7849
 <211> 172
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220089d07a1

 <400> 7849

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 ctaacatcct aaagcaagcg ccatggggac ctttgctaac tcaccaacac gcacaaacaa 120
 agccttgctg gcggccgaca ctgctagggg cctgaatgtc ctattgctgt cc 172

<210> 7850
 <211> 403
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220089d07d1

<400> 7850

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tttcatcatg tgcaaacatg ctcccttgcaa gcatcccttt ttaaccatga tcaggttctg 120

gtagcatttt gtatactatg cctccattca gctcttactc aagctttagc aatgatactc 180

actggtgaga ctaaggggga tactgtcttt gcatactgta ggtctgtaga gcgctaacca 240

tattttctga ttccctatga ctcccactta gaaacatatg attcatatat gcacgcttgt 300

ggcttactgg atggatctat gaatactggt ctacagtcta ttaccgtgag tcaggctttt 360

gcttagatct gtgaatgctt gtacaggggt aaactccaga atg 403

<210> 7851

<211> 530

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220089d08a1

<400> 7851

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cgtgaagtac acagagactg agattcagtc cgtgtacaac tatgaaacca ctgaacttgt 180

tcacgagaac aagaatggca cttatcagtg ggttgtcaag cccaaaactg tcaaatatga 240

atttaaaacc aacacccatg tccctaaact aggggtaatg cttgtggggg ggggtggaaa 300

caatggctca accctcaccg gtgggtgttat tgctaaccga gagggtat tcatgggcaac 360

aaaggacaag attcaacaag ccaattactt tgggtcgctg acccaggcat cagctattag 420

agttgggtct ttccaagggg aggaaatata tgccccattc agagcctgct tncaatggta 480

aaccctgatg aatgtgtggt tgggggatggg atatcaatac ttgaacctgc 530

<210> 7852

<211> 527

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220089d08d1

<400> 7852

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aacagaaaag aggggtatgg gatatgagtt aagttttgat cacattcaac tacactatcc 180
caaaccgtta ctcttaagac tttgaacttc acttgctctc taggatcatg ttgttctcag 240
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cattcaccac tgggtgtacc cgttggaacca gaggggcctt ggtcaggtaa ctaaggatgg 360
tcgcaactgg gtggaatgag tggaattttt cctcattttt agcttttaaac tcgattcgag 420
tgctgagctc agcaagaagg accaagtcca agataatagg agcagctaac agtgaatcct 480
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<210> 7853

<211> 330

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220089d09a1

<400> 7853

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ggctgaacgc tctcaccaaa cggggcctag ttccttcaga tactcgctct atggctctgg 180
cgcttttggg gacagcacgg ctgttacttt aactccggcg gtcggtggcg ctgcgccaac 240
tgtgacttgt gatgaccctt gatctgctac tgctgcggaa ggagcccacc gctgtccctg 300
ggagaggtta acctgttcaa caatctggac 330

<210> 7854

<211> 478

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220089d09d1

<400> 7854

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ctgtatgggc cataacatat caagagaagc ggggttccac tgatcatgaa ccgatgcaca 180
gaatcgagct acaagaacac acatgtgttt gttggggcca tttgcccata aatctcggaa 240
caaaggtggc ttaatatcac taatgcgtgc atatttgatg ccatatgccca gggctactga 300
tttaaaaatg aattgacggg attccagaat gtaatgccaa aaactttcta tcatgcggtc 360
ctgaagaaga cagcattaac tggggacggg tcatgattgc gtgtgacgat ccagagcata 420
cgcataatc tgagaggctc taaaaccaag tcttttgtta atggtaccat aatggaat 478

<210> 7855
<211> 350
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220089d10a1
<400> 7855

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ataatcgcgt tttcgcggtg aagtccgtgg attgtggaag ggggctttct ggtcatcagg 180
tggaggcgtt ggagaacgag attgggattc tgaagcgggt ggcttcgccg cacgtgggtg 240
cttatctcgg agacgatgtc acgtgcgaag gaacggcgtc gttcacgaat cttcatctgg 300
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<210> 7856
<211> 642
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220089d10d1
<400> 7856

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ccaccacac ccataccgac agtccaacc accacccctt ccagcgggtg tactcccacc 180
caactttcct attccccgat ttacccttac agaatccgaa tattccatac cagtccccgc 240

cacattgtga aactcccaat ttacccttc tttgctcgaa ccaacaccat cacactcaca 300
 cgtacatgct ccttcctcta tttctgtttc tgttcccgtt gtcgttggtt ttccgttgga 360
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 aaatttacta attctattgt taataactga tttttcttcg ctgttggtta attttataaa 480
 cacgtcttct tgatgatcac ggctgttaca atctgactcg gagttgagct ccgagtcaac 540
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<210> 7857
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220089d11a1
 <400> 7857

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 ggcggtggaa cggagtacaa gcctttccgc catatcagcc gcgatcggtt attaattgaa 180
 atgcttagat cggcaaagtc acctgattcg aaagcttgga aggtgctaata aatggataaa 240
 gtcacggtga aagttatgtc acattcatgt aaaatggcag atattacaga ccaagaaatt 300
 tccttggtgg aagacctatt ccggagaagg caaccattac catctttgga tgctgtttat 360
 ttcatgcagc cttctaaaga gaatgtggtc atgttcctgt ctgatatgtc ttggagggag 420
 ccctgtata 430

<210> 7858
 <211> 473
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220089d11d1
 <400> 7858

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cttataacttc aacagcttat accagatacc catcgcatac actcaagaaa aaatgtccta 180
 cgcctatata tatatatata tatatatgac tatctgacag tggagtggcg ctttaacaaa 240
 aaatttataa aacaaaaact gaaagggccc cctgtgttc atccattttc aagagagtat 300
 aaactctcta atgtctaaac aattatggat aattataatt gctacaaaag gatattatgc 360
 caacatactg taattagcag tcttttagaaa caagcttata tcccagggcc attcagctgt 420
 gaaacatcgc tgtcgaacaa tatctttagt tgctgaagat attgtggagg atc 473

<210> 7859
 <211> 554
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220089d12a1
 <400> 7859

cttttccttt ctgtgacatt cagatctcag aagaaaaaaaa tgaaggactc aaactccagc 60
 agtagcagca acagaaccga acccattgcc caaaacatca tcaaactcat tagcaacctc 120
 tgcttctccc tcttcgtctt ctctgtctta atcttcaccg tcatagccat aacctaccag 180
 cccccagacc catgggtcca gtccacccca gccctaacca acctcttcac ccaatcagaa 240
 aacgccactt tccgaatcga ctctctcgtc ctccagaaccg gcgaagacct ctccccctcc 300
 ccgcaagacc ctccccctcc gccaccgccc cctccgaac cctccatcga tataacccaa 360
 cagcaaactc ccaattccac cgttaattcc accgtcgact ctaccgctta ctccaccgac 420
 gcgcagcctn cctctctccc tgctgcgat gaaaccctaa actgctctaa ccctcgcgtn 480
 cttattgccc gtcagagatt caacctacgc gcgttcaagt ccattggctt cttcgactac 540
 cagccgccga tgaa 554

<210> 7860
 <211> 552
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220089d12d1
 <400> 7860

aatgagaaat gagaatggat ttagcagctt gattcaatag agaggaaaga ggggagaaag 60

ggattctctt gtatggatac aaaatcctgg ttatcaacat aaattatcaa tacaccatag 120
 gaactagcat gtacaacaac aagctcatat ctaacccaat ggcatgaatc tgaaactgaa 180
 tccaaaagca aggccctagt gtaccatgca ttctgaataa gcacacaaat cattcctgcc 240
 aacctgatca gcatgtatta actccatcct tgcaaccttt agtcaactta tagaacgtct 300
 ccacgcttgt ctttccacgg taaaagacct ctgtatccac tgcaactctc atgtacccat 360
 caaactcaac aggctttcca ctgacgataa gcgtgggtctc gttataccac tcgcttgcat 420
 ttccccacag ctctttataa tcatcaagca aatgcacctt gtaatttgac cttaacttat 480
 caaagcaatt atcataaggc tcattgggtgg caatatacaa atgcctccaa ggctgaacca 540
 tccatctgag ct 552

<210> 7861
 <211> 379
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089e01d1

<400> 7861

gcaaaaatag gccatgcaac gccccttttt attaaatcgg gcatcatatt tacataccaa 60
 aaatcagggg gaactccaca caatttttaa attttcactt tacaaaaagg gcagtaattt 120
 ttaaacacgt aaaccattgg attggatcca taataccgga atgaaggaaa tttaccccct 180
 tctaaatttt ccgggtgact tgaaaaaact aatcctttggg tcaaaaaaaaa cttgggtttgc 240
 ttgcaagctt aaaaggaagt caacatgacc atagttttta agataaacca cttccggggg 300
 ggaagggaat tccttgaggg ggggccggaa aatagttttt tttgccaaaa gattttttcc 360
 cccatagggc attcccagg 379

<210> 7862
 <211> 529
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089e02d1

<400> 7862

gaagaaaaaa cccaagcaca gtatagcatg ggaaggtaca aaaggtcaaa tgtgggtgta 60

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catgactaca tgatttcagg tgtaaattta tttgttataa caattgaaca cacaaaaaaaa 120
gtatccatat caagcatggc aacccgacat taaatctcgc taaatgtatt tttttttcat 180
gtcgccttag gcaagactat gtgatttttc aaatggaaaa taatggataa tcatcatcta 240
aaggtttcta gaagcttttg aatcaaataa cttgagacaa tgcgatttgt cttctccgta 300
ggatgaaatg catcccaaaa cacgtacttt tcggcgtctg tgcattgtaag tggattcttg 360
tactgcaca agtagctcat ctcaaagtgt cctgtcgaac aacacgcctt ctctacaacc 420
tcaaatccat atgtggaagg ttttgtgatg atatcattga cgatggaata tgcatttgcc 480
gacaacgctt tcaaccgtgg aagctcccta ttaagcttcg tgatcacat 529

```

```

<210>      7863
<211>      483
<212>      DNA
<213>      Glycine max

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<223>      unsure at all n locations
<223>      Clone ID: jC-gmf102220089e03a1

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<400>      7863

ggtaaggaaa agactcacat caacattgtc gtcattggac atgtcgactc tgggaagtca 60
actaccactg gtcatttgat ctacaagctt ggaggtattg acaagcgtgt gattgagagg 120
ttcgagaagg aggctgctga gatgaacaag aggtcattca agtatgcctg ggtgcttgac 180
aagctcaagg ctgagcgcga aagaggaatt accattgata ttgctttgtg gaagtttgaa 240
accaccaagt actactgcac agtcatcgat gccccggac atcgtgactt tatcaagaac 300
atgattactg gtacctccca ggctgattgt gctgtcctta tcattgactc caccactggt 360
ggttntgaag ctggtatttc taaggatgga cagactcgtg agcatgctct tcttgctttc 420
acccttggtg tgaagcaaata gatttgctgc tgtaacaaga tggatgccac taccgccgaag 480
tac 483

```

```

<210>      7864
<211>      546
<212>      DNA
<213>      Glycine max

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<223>      unsure at all n locations
<223>      Clone ID: jC-gmf102220089e03d1

```

<400> 7864

ataaaaacttc gttataaatt aaatgcaact taaaacatcc ctcagcagca aaggaaatgg 60
 actaaaaccc tatagctgct tgtgaaattc gaaatatctc agactcttct taccatcaaa 120
 acaaaaaaca gtactcatca aaaacaaaca gcaatgaaaa ttgaccaccg ccgatcaaga 180
 acctagtttt gaaagttacg gctacatgaa atcggcagaa acttaaaaat ataacttaaa 240
 caaaacacct aagactctgc aaggataaaa ctactataaa ggagtaacca cgatgatgat 300
 cacatgtgct agcaaaattg cccaaatgca atcacttctt cttggcagcg gccttggtga 360
 ccttggtctc ggtggggtct ttcttctcaa cactcttgat gactccgaca gccacagttt 420
 gacgcatgtc cctcacagca aaacgaccaa ggggaggata ctcagagaaa gtttcaacca 480
 ccatgggctn gggtggaatc atcttaacca tacctgcac accattcttc aaaaatttgg 540
 gctcct 546

<210> 7865

<211> 483

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220089e05a1

<400> 7865

tttcattttc gttttctctc tcttcttctt ttctctttaa acgccgacca acgacgcgac 60
 acgacaccgt ttcgatgggtg gtgaagatga tgcggtggag gccgtggccc cctctcgtct 120
 cgaagaagta cgaggttaag ctcgtcgtga aaaccctcac tctccagggc tgcgatctgg 180
 tgcgtgcgtc cgcagagaaa ggcttcatgc tccagattaa gtggaagggt cccaagctta 240
 ccctaagctt gctgagacgc aacgccgttg cgagaaactt caccagagaa gcgcaccctg 300
 aaaaaaacga cgacgtcgtt ttgtgggacg aggagtttca cgcactctgc acccctaacg 360
 cgtacaaaaga caatgccttt caccctggg aaatcgcttt ctctcttctt aacggtttga 420
 atcanagggt caagactaag gttcctgtgg ttggaactgc gactttgaat ctagctgaat 480
 ttg 483

<210> 7866

<211> 475
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220089e05d1

<400> 7866

gaaaacaaaa atctatTTTT ttattaattg atcttatatc attgctatca gtaaataata 60
 aataaatatg atcttgtgga atcagagtgc aaaatgtaag ccaattcaca agtcttttgc 120
 aaactacatg ttaggtgcca aaagtttgag ctctcacatc gaaaaggaaa ttacaaagtc 180
 atttacagat actcttcctt ggtaagatgt agcaaaacaa agcctttttg ttaatttcac 240
 tgaaaaccag aaggcactct taacgtaaga ctagtttgaa taaccacatt gtttccttat 300
 aatttacagt tgtgcaacta ttatgcgga acctcagtta ctgcaagagc aagagtctct 360
 ggcacagtca tggatgggtc agccactact ggaggtgcaa cacaagactg caacacctga 420
 gtgtagtgaa actcaatttg tagcctatga tgaaatgggt gttgagttga tgata 475

<210> 7867
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220089e06a1

<400> 7867

tgtcagtgtc agagtttcca atgaacttgg gcttggacat ccaagagctg ccaagtactc 60
 tgtctatgtg atagtctttc agtcactttt cttgggaatc tttttcatgg ctattatTTT 120
 ggcgactaga gattattatg ccattatTTT taaaaacagt gaggttttgc ataaggccgt 180
 tgcgaaacta ggatacctcc tttctgtgac aatgggttcta aacagtgttc aaccagtgggt 240
 ttcaggtggt gctattggag gtgggtggca agccctgggt gcctacatca acatagggtg 300
 ttattactta tttgggcttc cactgggggt cgttcttgggt tatacagcan atttgggggt 360
 tgaggggaact tgggggtggaa tgatatgtgg aattgtactc cagaccttgc tgctcttgggt 420
 gatactttac aaaaaccatt ggaagaaaga ggtggaacaa acagct 466

<210> 7868
 <211> 532

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089e06d1

<400> 7868

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ggaaaaataa cgaagttttt ttatcttcac catctcatca gacaccacag ctaaactatg   60
ttctgtacct aattggaaga gagcaacatt acatgtaaaa tggacagact aggaacacat  120
gaaaaaaaga ctttgagaac ttgactcgag tggaggtgga agatatacaa gattatgcag  180
aagccactat cttatcaact ccaatgtctt gtccactcca tatccgcatg cgttcagctg  240
tttgttccac ctctttcttc caattggttt tgtaaagtat caacaagagc agcaaggtct  300
ggagaacaat tccacatatc ataccacccc aaagtccttc aacccccaaa tttgctgtat  360
aaccaagaac gaaccccagt ggaagcccaa ataagtaata acaacctatg ttgatgtagg  420
ccaccagggc ttgccaccca cctccaatag caacacctga aaccactggg tgaacactgt  480
ttagaaccat tgtcacagaa aggaggtatt ctagtttcgc aacggcttat gc          532

```

<210> 7869
 <211> 498
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089e07a1

<400> 7869

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ttataactag gtatttattt tctcatatgc tcttcttaaa cttctctttg gtagtgtgtt   60
cacatacata tctacttatt gttattatta ttgtcaccac atacaataat gggttccatt  120
agtaacaccg aggttcataa tcatcacaat gatgatgacg acgatgatca tcgtcatcgg  180
gtgaatttct cgatccagag aggatttggg aaaaaattga aggaggcatt gaaggaaaca  240
ttgtttccgg atgatccctt caggcagttc aagaacgagg agaagccaat ggggaggggtg  300
atgaaagggg tgcaatactt catcccaatc tttgagtggc tccccactta caattttcgc  360
ctcttttgct ctgacttgat cgctggacta accatctcaa gccttgccat tcctcaaggc  420
attagctatg ccaaacttgc tgacctttct cccctcattg ggctttaatc cagctttgtc  480
ccacctttga tctatgct                                498

```

<210> 7870
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089e07d1

<400> 7870

gggaaaagtc attaatTTat tagcgaatat tttctcaatt ccacaaatat atagttgtat 60
 aataatacta ttctataata caacattgat ttgggcaacc gaaaggctaa ttaattaact 120
 acttaggcac gaatttcttc ttaaaccacc tcttgagcat ttttgcagc ctttgatgaa 180
 cgaagtgtat attgacttgc catcactgca tcatccaata ttagataaaa cgactccttc 240
 ccaattttct caacaaactt ggacattagg atcttctcga ggggctccag ccttggggtg 300
 acgggcgta agtttaagtg tatagtgggg gaatatTTta attaactcgt ccaatccttt 360
 aatagcaggg agaccaatgg ctgtcactcc tgacaaatta agtatgatgt gctcaactac 420
 atcttcagta gagctttcct cacttcgaat atacctcata atcctatctt tgacgtatat 480
 agaatttgcc aagtaaacgg gagaac 506

<210> 7871
 <211> 441
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089e08a1

<400> 7871

cttgttccta ccagtccac tgggtattct tttttacttt gcatcttctt catcatacat 60
 gcatgatgaa gatTTTcaac cctctgaat gctttcttcg gaacgtggta tgtccatccg 120
 ataccatctt cctgaaaagc atcaatcttt cccatctggg tgtttcccat ctctacctat 180
 tcagaatgtc cattctctcc tggcccaatt agcagctaca ctacaccca atacaacact 240
 atacttcttc tcctatggat ccacaaaacc aacaccccc taacccgaga agcattatct 300
 tcaacaagta cgagatgggg cgggtcctgt ggcaaggaaa cttcgccaaa gtctaccacg 360
 cccgaaacct caacaccaac gagagcgtcg ccatcaaagt catcaagaaa gagaagctca 420
 tgaaagagcg actcgtgaag c 441

<210> 7872
 <211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089e08d1

<400> 7872

aaagtgaaca acaatgtttt cacttttcca tgatttgcg gattattttt gctagtatat 60
 atatatacta ctgtagtgta gtatattcaa atcaaacacc gtcacaaact ccacagtcca 120
 aatttacata gtatgtatga aatcaaatta agcaaataca agacaaacta aattaaacca 180
 cgaccatgat ggatcataga aagtactagt actataaaaa aaaaagacac agaaatgaga 240
 aatgacttag taactactgt tggagttatt attagtatca atcacctgc cagcttcaaa 300
 caatgtcttt gaggaaggc ctcaattgct cctcacagaa cttaacatac tccaacgtat 360
 ctccggcaga cttagtaaac tccgccaccg acaccttcgg cgccacctcg aaaacctcca 420
 ccgtcatcgc cagcttacc ttcctaccct tctacgtccc ct 462

<210> 7873
 <211> 419
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089e09a1

<400> 7873

ctcgcgaaag cgccaaatcc caacaatacc cacacctcac tcaccctaata gcccaaattc 60
 cgttattcaa ctttccccct caccacctcc ttcacacctc actcaccacg gtgggtgcgtt 120
 aaaatcactg gtcgcaattt tcctctttct taaccgcacc atgtcgaata ggaagttcgg 180
 attcgaaggg ttcggcataa accgccaatc cacctacagc ttcgagcgat ccagagcccc 240
 tcagcgactc tacgtacctc cctccgcgcg ccacggccac gaccactacg aagacaccga 300
 catcgacaac atcgacttcg acgacaacaa caacgacgac gggagcaaga ataacaacgg 360
 tggcggcaac gacgacgacg acgaaatcga ccccttgat gccttcatgg aggggattc 419

<210> 7874
 <211> 490
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089e09d1

<400> 7874

```

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttg 60
ttttggtttt aaaaataggg gattgaaaac cgggcccctt tttattcaaa aaaaatcaat 120
tcttgacttg acccaaatat aggaacattg atacctttga cagggggggc attcaatggg 180
gcaccaaact ttttatccca acctggtggc cccccctt ttttaggggt aaaactggcc 240
gggttctttt gaccaggatt taccceaaaa acttgaccgg gggaatttcc cgggtgttga 300
cccggtattg gggaaacaaa attccgacaa atttttatgt ccccgccaat tgatcccccg 360
ggttcaaaac ccgggggtgc cgggtccctta ttagcagcca tgcttgaatt gcgccccaat 420
ccttgattct ggaagtttga tgaagccgca acaaaggctc ccttaaattg ggacatctat 480
tcctggtccc                                     490

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<210> 7875

<211> 429

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220089e10a1

<400> 7875

```

gagtaattgc ggaatcagct agaattttct aataatggcc aaagacgttg agcaggttac 60
agagcaaggt gaatactccg cgaaggatta ccatgaccca cctccggcgc cgttgatcga 120
cccagatgag ctactaagt ggtccttgta cagagccgcc atagctgagt tcatagcaac 180
actccttttc ctttacatca ccgtgttgac cattattggc tacaagagac agagtgacac 240
caaaatcccc ggtaacaccg agtgcgacgg cgttggcatt ttgggcatcg cttgggcctt 300
cgggtggcatg atcttcatcc ttgtttactg caccgccggc atctctgggg gacacatcaa 360
ccctgcggtg acattcgggt tgtttctggg acgcaagggt tctttggtga gggcgttggt 420
gtacatgat                                     429

```

<210> 7876

<211> 571

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220089e10d1

<400> 7876

```

aggtaaaatt tggctaata tccaccacat tatataaaaa gggaacacat gatgataaat   60
actggaagaa agaaagaaat taaataaaaa aaaaaaacia aacaaaaggg atacaaatac  120
acccttgaca taaaagcatt cttatctaca aattcaagag ccccaaacc acggtatttg  180
gcttttgccc caaaccacag ggtaagcaga aaagccaaaa aggaaggaac tccaagaatt  240
gaactgaaac actgttattg ttttgggtga cacaggacaa atgatcataa tttaggtagt  300
ggagattatt aattaagtgt tgctcctgaa tgatccaaga gctttgattg cagcagctct  360
aagaatgtat tgatggtaga atgcagccac cgcagctcca acaaacgggc caaccagta  420
aatccattgg tcgtcccagg ctttgcgtt gttgaagatc acagctgggc cgaaactcct  480
tgcagggtta atgccgggtc cagtgcagg gattgtagcc aagtgaacca tgaagacggc  540
aaacccaaat ggaagtgggtg ctacacagga a                                     571

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<210> 7877

<211> 488

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220089e11a1

<400> 7877

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cgaagagaat gggtcccaag ggtttaatct ttttggctgt gttatgcttc tcagcactgt   60
cactgagtcg ttgtcttgcg gaggataatg gacttggtat gaacttctac aaggaatcat  120
gccctcaggc tgaagacatc atcaaagaac aagtcaagct tctctacaag cgccacaaga  180
acactgcttt ctctgggtc agaaacatct tccatgaactg tgctgttcag agttgtgatg  240
cttcactgtt gctggactcc acaagaagga gcttgtctga gaaggaaaca gatagaagct  300
ttggggtgag aaatttcagg tacattgaga ccatcaaaga agctttggaa agggaatgcc  360
caggagttgt ttctgtgct gatatcctcg ttctctctgc cagagatggc attgtttcgc  420
taggaggtcc ccatatccct cttaaaacia gaagaaggga tggtagaagg agcagagccg  480
atgtggta                                     488

```

<210> 7878
 <211> 533
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220089e11d1

<400> 7878

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agcagcactc acatgcatac ataacatagt aatggacacc atgaacatgc ctttctaccc 60
aactctaacc tacttgcaca gtacttattg aaataaaaaa ttaaaaaaca aactatcaaa 120
caagagtgac atcggaagat taaaaaaca agcgtcttaa tcctcgcac cccatgaacc 180
tgctgtggtc ttgatcggtt cattgaacca atcaaccaac ccatttaaag aaaaacacct 240
taattatttt ttgcataata tcttacagat ttcttccaca tagagaaggg gaagaaaatt 300
caaggcccaa attaagcggg aagcaattaa ggctcctcat ggtgcttggt ggcaacattg 360
cactgctttc tgatctcacc ctttgtgcc atgagagggt tgttctcaga gagcaaagga 420
atggctctag aaaactccct gaagaaatag tcctggctct tggccatttt cttcacataa 480
ggcttggtcc tcttgtcatt ggctagttgg tgatccacta tcaacaagcc ctt 533

```

<210> 7879
 <211> 593
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220089e12a1

<400> 7879

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tcgagcaaaa acccaaccat actaaaatca gttgctgcaa catctccaac atttaacata 60
gctatggcac ctctcaggc agacctaagg aagatcgggt cagaaggctt tgctctgata 120
gacaagttct atgggtccagc aagaaggaac agtgtcaatg atgcattcca tgggcgaaga 180
ggagatcggt gttgggttgt ttataatgtg tctaatgatg tcatggaaga ttctgctgca 240
attggcatgg aggcaacaac tggccatttt gctgcgaaat ctgctatgaa ttatccaaag 300
gcaggtaaac ccgaaattcg ttattggggt agacccttaa aattttaagt ttttttggct 360
tatgcatggt atcaatatca ggtgtcttca aatgggtctg tatttcatgt tagcttactc 420
ttgtttgata tatacgtgta taaaaaaaaa aactcggaga cttcatcta tatttatatc 480

```

aagggtcttct gtagtttgtg gaaggtaaat tacatatgta gttgaataaa gtactcaagt 540
atcaagggat gtaatgaaac tactnngtat gcatggacta ctatTTTTTT tag 593

<210> 7880
<211> 403
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220089e12d1
<400> 7880

ggttcaaaaa tttttttttt attaataaaa agtctgcccc gaaaataaaa aaactacgat 60
aaaaaattct tcgtatcgcg atccaaattg gaatactccc aaacggggca attgaacctt 120
aacttaatac aaccattttg tctcccaaaa aggggggaaac tcactacagg cttaaaatcg 180
taaataaaaa atggcccact gcaacactta taaaggccct tggggactgc taaacttaca 240
ctagcttacc cactggaata gattggggca acaaagtttt ttccattttc acaaaagggg 300
gaaattcaac catatgaggg attgtttcct ttaaaaacct ggggggtccc cttaataaac 360
ttaaagttaa agttcctgga tttacgacca gtcaaagctg ggg 403

<210> 7881
<211> 470
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220089f01d1
<400> 7881

aaaaaagggg gccaccccaa aataattaac ccaaaaaagg cccccccaaa aaaaaatccg 60
taaaaaaaac cgccttaaaa aaaatttcag ggcccaaaaa aaatttgggg gcaaaaaaat 120
tttttaaaaa aaaaaacccg ccaaaaaaaaa cgggggccctt tggaggctta aaccccccaa 180
taaaaccccc aagaaaggga aacccccccc cccatccaag gaaatcggac cccttttttt 240
ttaagcccc ccaaattttt gggctctccc cggaaaaaaa aaggccccct ttttttggg 300
ggcggcaaaa atttctcgtg gtaaaacata ttttaccacc caaacttttt ggggccccaa 360
aagggggaaa aaccctcttg aaaacccggg agggaaaatt gcgggggggg ccaaacacac 420
ctttccctcc ccttcgggcc ccttttttaa aaccccgggg ggccccctta 470

<210> 7882
 <211> 589
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089f02d1

<400> 7882

acaaacaaga aaaaccaa at catgaagcat gcttttctta ttgaccttat accgtcgtca 60
 ggtacacatg gaaattatac atgaacaatg agtgtcagta acacattcac taacactctt 120
 ttttaacaca ttcttctatt gcttaaaatt taggtggatc ctactaattt gtgaacaaga 180
 cccaccaa at agaaaatgaa actcaccgga cttttaacta acaggagatg tatgtcacia 240
 agagtgttag ggaaagtgtt gttgatacat gaatatatat atatatatatat 300
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 tgaaggggtc aaccggagcg gattcttcaa gagagtttgc tgtctcaaaa cattctgcag 420
 cttctagaat tgtaccctca tccttgtgaa aaataccaag attataccaa gcagaagcat 480
 taaatctgtc atgccgtagt gcatccatca gaaagcttct gatagcagga tttgatcgat 540
 tactgcacca tctaagaaca accgcagcag agatcaagct agggacatg 589

<210> 7883
 <211> 506
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220089f03a1

<400> 7883

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 aatcacattc acggggcggt tcaaactccg atcaacactc taaccgcttc ctgcctaatt 120
 tcattctttt cttgatcgaa ccctgcggag acctttccat caaccacaag tgctccttgc 180
 tctcccactt tattcccact gtcagttcca ctctctcatt tgaatttgca tttgcatttg 240
 cattttcatt tcatttcctt ttcgcttttg cagctctcat ctgcattcct cgaagacgcy 300
 tatcaacacc accttttcac cacctctaaa caacaaaatt ctggtgggtt tcaacaaagt 360
 cttgttgga attctttgct tagttgcaat cagatgaaag aatacagttt gttgcaaaga 420

tgtaatgaaa acgctgccat ggtcgggctg gattccatgc aaatggcana ttctacactt 480
gaggattttt gcagatctta ttttat 506

<210> 7884
<211> 576
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220089f03d1

<400> 7884

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gtttgaaggc tgggaacgga gaaacaaaca tgctgtcaac gttcagccca aagctacaat 120
atagttgctt ttttgttttg tcccttgga tgtatgaatg tccatttttg aagctcctaa 180
tggtaatcca aacacacact atagtttaca tcatcggtgg caagtataa aatcagaatg 240
agttatagaa atatccgttc agctttactt ggtgtgtcaa aattaaatta cttttttgaa 300
aggagagctt ggactctcat gtgtcgcgca catgcgttgc actatagcac gggcctggca 360
cacccttttt gtaagtcctt taatgagtgc gtcattcaac atttcaactc caactcgtca 420
tggtatactg gaggaattac ctacagagaca cagttaaaag ttatattcac gaaatatctg 480
acttcaactt taatctatac aattcctcat cttgaatcac ggttgganat actcatgttc 540
caagagggtg ctctgatacc ttttcacctt ctttag 576

<210> 7885
<211> 391
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220089f04a1

<400> 7885

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tggaaccagcc aatcgtcgat tatatcgta acgtcctcgc cgacgatgac ttcgatttcg 120
gcctcgacgg cgaaggcgcc ttcgatgcc tcggcgagct cctcgtcgcc gccgactgcg 180
tcgacgattt ctcccactgc cgctccgtat gcagcacgct gtgcgacaag ttcgggaagc 240

acggtttggg gaaggagaag cccgctgtgc gaagccttgc ggcgccgttt cgaatgaacg 300
 agggaatgga cgacgtccaa gctcccaaga agaagccccga gcccgtcgac ggccctcttc 360
 tatccgaacg cgatcgctta aagctcgagc g 391

<210> 7886
 <211> 328
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220089f04d1
 <400> 7886

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 ataggtttgg ataaattgca aaattggata ttcccatgta tgacagctga caggaggaag 120
 agcataaaac cgagatccag gtgtcttcca gtatacatc acaaaatgta acttttctaa 180
 gatgattgga gtatctgctt atcatctagg aatgcgccat ggaatgggtgc cactatggca 240
 ttattacatc ctatagtgcc ttacatcttc catagatgac ttgctcatcg tgactcacca 300
 tgagaatgcc tgcttggaaac agcgcatg 328

<210> 7887
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220089f05a1
 <400> 7887

tgtcagtgtc agagtttcca atgaacttgg gcttggacat ccaagagctg ccaagtactc 60
 tgtctatgtg atagtcttcc agtcactttt cttgggaatc tttttcatgg ctattatttt 120
 ggcgactaga gattattatg ccattatttt taaaaacagt gaggttttgc ataaggccgt 180
 tgcgaaacta ggatacctcc tttctgtgac aatggttcta aacagtgttc aaccagtggg 240
 ttcaggtgtt gctattggag gtgggtggca agccctgggtg gcctacatca acataggttg 300
 ttattactta tttgggcttc cactgggggt cgttcttgggt tatacagcaa atttgggggt 360
 tgagggactt tgggggtgga tgatatgtgg aaattgttct acagaccttg ctgctcttgt 420
 tgatacttta caaaaccaat tg 442

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<210>      7888
<211>      570
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmf102220089f05d1

<400>      7888
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gaaaaaaaga	ctttgagaac	ttgactcgag	tggaggtgga	agatatacaa	gattatgcag	180
aagccactat	cttatcaact	ccaatgtctt	gtccactcca	tatccgcatg	cgttcagctg	240
tttgttccac	ctctttcttc	caattggatt	tgtaaagtat	caacaagagc	agcaagggtct	300
ggagaacaat	tgcacatatc	ataccacccc	aaagtccctc	aacccccaaa	tttgctgtat	360
aaccaagaac	gaaccccagt	ggaagcccaa	ataagtaata	acaacctatg	ttgatgtagg	420
ccaccagggc	ttgccaccca	ccttcaatag	caacacctga	aaccactggg	tgaacactgn	480
ttagaaccat	tgtcacagaa	aggaggtatc	ctagcttcgc	aacggcctta	tgcaaaacct	540
aactggttga	aaaataatgg	cataataatc				570

gagaaacaga	ctcgctgctt	agtttatgag	cttgtccta	atggaagtgt	cgaatctcac	60
ttacatgtag	ctgacaaggt	aactgatcca	ctggattgga	attcccggat	gaagattgct	120
cttggtgcag	ctcggggatt	ggcctatcta	catgaagatt	caaatccatg	tgtcatacat	180
cgagacttca	aggccagcaa	catcttgttg	gagtacgatt	ttacacccaa	ggtctcagat	240
tttggaattg	ctagaacagc	actggatgag	agaaacaagc	acatctccac	acatgttatg	300
ggaacatttg	gctacttagc	tcttgaatat	gcaatgactg	gccatcttct	ggtcaagagt	360
gatgtttata	gttatggagt	tgtactcctt	gagctcctaa	ctggagaaag	cctgtggatt	420

tgtcacaacc accgggtcaa gaaaatttcg tgacatgggt tcgtccactt ttacaagtaa 480
ggaaggcttg caatga 496

<210> 7890
<211> 537
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220089f06d1

<400> 7890

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ctttgttaca ttattatcac aatattttct ctcaagtga tctaacatgc gattcatgga 120
actcgatgaa ttcggtatgg aaaacgcaag attaccaaaa gcttaatggg atccatgttc 180
actggagcta cctctagaca aacttctcaa cttctgccag aactgccttt tcttcccaat 240
aattagaggc cctgaacgag aatactgcct gaacgactca aattcctgac ctgaagtact 300
gagcaactct gatgctgata atcttacctt ttcttcatta gattgatagc cagaaaaagt 360
tttttgacac tctgaaaatt ccactctttc acctgaagct tcggaaaaaa ttcctttcac 420
atcggttaga agaccctctt gagaaccctt cgattttata aagtctgtgt tctcaaactc 480
actgcatact agcttcaagg ccttgacaac ttcttcatt gaaagacgtt gagagac 537

<210> 7891
<211> 443
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220089f07a1

<400> 7891

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aaagacacag agccagcctt ttggactggg ggtcaggtta cagaagaagg cctaaagtgg 120
ttactggata aaggatataa aactattata gatctcagag cagagactgt aaaagataac 180
ttctgtcaag cggctctgca agatgctatt tcactctggaa gaattgaatt ggtaaaaatc 240
ccggttgaag ttaggactgc acctacaatg gaacaggttg tgaagtttgc atcttatgtt 300
tcagattgca gcaaaaggcc tatctatctt cacagcaagg aaggagtttt gcgaacatct 360

tccatggtct ctcggtggag gcagtacatg actcgatctt catcacagat tgttttcta 420
ccaacagtta caccctatga cat 443

<210> 7892
<211> 422
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220089f07d1

<400> 7892

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gagggatctg ctatatatcc aaggctctgga aaatcaatgg acaagcgggc caggaatttt 180
agaagcccta tccttaggtt ggggacctgc ctttgggcc ttcacttggg catgccttac 240
agagcctttt gatcaagcct gtaattctcc ttgaggcggc gaatcaggct tctgaaccaa 300
tcacccgttt gggcaaactt gttaacagat ggaaggggag gcgggctcat cgaatttcgg 360
acagaatcgc cttttgagag ggggggcctt gttttcccaa taaatgaaac ccaggcttta 420
ct 422

<210> 7893
<211> 460
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220089f09a1

<400> 7893

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gggtattattg ctcaagaagt tgccgggtgat gtcggtatga ctgatacccg tgcagatgaa 180
gctgagcgtg gtattaccat caagtctaca ggtatctcac tctactatga aatgactgat 240
gaagctctca agagttttaa gggagagcgc aatgggaatg agtatcttat caatctcatt 300
gactccccctg ggcacgttga cttctcatct gaggttactg ctgcactccg tattactgat 360
ggagctctag ttgtggtcga ttgtgtggaa ggagttttgt gtcccaactg aaactgtgct 420

aagacaagcc cttggagaaa ggattaggcc tgttctgact

460

<210> 7894
 <211> 577
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220089f09d1
 <400> 7894

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 gtagcattgt tcacaagaga aaataaattc gactaagttc aaagtaaaat aattcatgaa 180
 acaaatttaa agcttgtctt caaactcgga gagaggagtc atctgttctt tcaagccctt 240
 cctcttgcca atgtcagtga caagctgtgc agcttgtgat ccagcctcca atgggtcaga 300
 agacatcatg tcccagtgat caaacacaca ttgtgggaag gcctggcctg atgttgcagc 360
 cctcaatgtg ctcgagaaac caaaggactc gatgacaggg aggtatgcct tgatgttgta 420
 tagtggggta cctggcctct gcatttcttc gaacacgtgt ccacgcttct ggttaagaac 480
 actgtagatt ccaccaagag cttgttcagg agcctgtatt tcaccaggta gacaggctca 540
 agaagcctgg gttnggcagt aatctgggaa gcataga 577

<210> 7895
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220089f10a1
 <400> 7895

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 ggtgatgcag ggtcttgttc tctgcacact tttgttgcg gcggtttttg tccaagaagt 120
 tgaggcaaga gtaatcagca aagaagcaat gcagcgtaac accattcctg gatgcagcaa 180
 agtacacccc aatgtcgccg cttgtcatct gccattagtt aacatcaact atagaagagg 240
 ttgtgagcca ggagaaagat gtcgccaata agatccagat cgaggatgat ataagccagg 300

gactcggcct ttgatcaatt tcttttaaaa accatgtgta ctggctacaa tatgtaaaag 360
 gacattacct tgtacaccaa gtaaaataat gaaatttcatt ctt 403

<210> 7896
 <211> 411
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089f10d1

<400> 7896

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 attggagcca gtacccatgg tttttaaaag aaattgatca aaggccgagt ccctgggetta 120
 tatcatcctc gatctggacc ttattggcaa cattttttctc ctggctcaca acctotttcta 180
 tagttgacgt taactaaggg caaatgacaa gcggcgacct tggggggggac tttgctgcat 240
 ccaagaatgg gggtagctg aattggttct ttgctgatta ctcttgcta aacttttttg 300
 accaaaaccg gcgacaacaa aagggggcag agaacaagac cctgcatcac ccttggcatt 360
 gccatcgcta ttaattaat caatgcgaag ttgattaatg atgagttaaa t 411

<210> 7897
 <211> 439
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089f11a1

<400> 7897

ccaaccccaa gaagggttct tcaattttgt agtttttttc tttgtggtgg ccgggttaaa 60
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 acaaagaaaa aaactaaaca atattatggc gaactgtcag caatattatt ttcttttgct 180
 ttctctggca attttttatt ctaccctgaa tgccaattcc ttagagaaag atgagtattg 240
 gcagagccat gtctatgagt ttgatagtta ttggcaggaa agggcaaaag ccgctaaagt 300
 ggacagtcag gcagcttatt ttgaagacc atattcagtc tccagcaact tcacttccag 360
 tgttagcgaa ctcacaattg gcaagaagga tttacgaagg aacttgaagg gaaaatatcg 420
 tgggtgacggt ccatgcata 439

<210> 7898
 <211> 582
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089f11d1

<400> 7898

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caagggctac ccactctgga cttcaccagg tcgactgcat agcaagtaag ccttcctaca  180
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tgccccgatt gcacaaaaaa tgctccattc atgtacacat cgataataga tctccactgc  300
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ctgtcagggg cattaaaacg gtcaccctca ctgataatgg cggggtcctt gctaccacca  420
atggcataca tttcccagtg agcgtagtca ttatttaccg aatggacaaa accatatcga  480
actctgggca tcctctgaac taaacttttg cccaaacggt tgaatgcaa ggtgatttgc  540
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<210> 7899
 <211> 590
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220089f12a1

<400> 7899

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tgaactctca cgtcactgtt aactcacaac accattccaa cagttgatgt ttgatataga  180
agtgcaccta aacacatggg gacaagcagt tttctatgga actgtactaa aaaattcatc  240
acagccggga tcgtcactgt gactgtgact gatcattttg tgacagttat tccagttcga  300
ggcggatcta tgtctccac atttaatcct aaagctgggt ctcatatggg agatgttttt  360
gatgactatg ttttggttga gaaattttgc cttaggaatt acaagttttc acatggcgat  420

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gtgggtggtct ttcggttaata tttctgtcca tcctttacca agtattgtac tctntacttt 480
 aagaattaaa tttgcattta tatgccatat tttccttttt atatgatgtc tggaagataa 540
 tttagctggt ggctgtagaa gcctgtgaac tagcatgtct ttggataata 590

<210> 7900
 <211> 591
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220089f12d1
 <400> 7900

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 tatgcaagtt ttttcaccta ttctgcttta agatatcatt catctcattt gtaaccttta 180
 ggttaccttg cttagaatgt aaccaacatt tgagggattc aagggtttaca ctagcaaccc 240
 aatcaacaaa taggtaagta actatccttt ccaactgacaa atcaaggaac atgtaaggga 300
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 cttccccgaa ttagggccaa aggaattggt ccatatgaat ttgaatccaa gctagaagcg 540
 ggtgtgtctt cttcaaccca acaatgtcct aatggaatct gaatcacatc a 591

<210> 7901
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220089g01d1
 <400> 7901

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 gatgagtgcg aagagagttt gagcttaata tttgcttcaa agcaacttcg tatagcttca 120
 tgaaatcata ttttagattc agtaaataaa ttaatatgat aagctaagcc tcgccagtaa 180
 ataaattaat atgataagct aagcctcgct tgagcctcaa agttttcata ttatgggaac 240

agggacagaa ctttaaaatt tggccgagtg cagctatgat aaaataaaag tcttaattca 300
 aacagaatag agtcgcaatc agatattatt cgaccagtta gcagcacttc caacccttgg 360
 catgccagtt gcttcctttt tagcctcagc ttccaccttg aa 402

<210> 7902
 <211> 563
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220089g02d1
 <400> 7902

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 gtgcagctat attcggatgg ttgtcgtcta actctacttg ctcacttctg ataacctctt 180
 tacagattcg tacaagtcta aacactccaa aaattcagca tcaaactgag accattatgt 240
 ccttaaaaat gcagaagatg atcgtaagat taaatttttg agatgtcttt ttactatagt 300
 tcggccagta ttgagaaaaga cgtgcctttt ctgttcctgt ttttgagctt tataagcagc 360
 tgtcaaatcg agctgcttaa gtgatggggg caaagagcca taataagtca acaggtagat 420
 caaactgaa taaggcacct tctaatact gatataattt cctccaactc aggatcctcg 480
 aagttcagag catcatagtc cgaaattggt cattaaatgt acccttctct gctagatcat 540
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<210> 7903
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220089g03a1
 <400> 7903

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 agaagaagaa tcccctgggtg tttatggatg tgtccatcga tggggatcct gttgaaagga 180
 tgggttttga gcttttctat gatgttgctc ccaagactgc agaaaacttt cgtgcattat 240

gtacaggaga aaaaggtatc agtccaaata ctggaaaatc actgcactac aagggttctt 300
tcttccatca gatcataaaa ggttccattg tgcattggtg agattttgtc aatcgaaatg 360
gaactgctgg agaaagcata tatgggtcga agttcccaga tgagtcacct aagctaaagc 420
atgatgctac cggactttta 440

<210> 7904
<211> 549
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220089g03d1

<400> 7904

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gcagggcttc tactgacact tctaccatgc ctgcctctca ctgggcttct actgacactt 180
ctccaattcc tgcctctcac tgggcttcta ctgacacttc tccattcct gactcttact 240
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ccattcctga ctctcacagg gcttctactg acacttctcc cattcctgcc tatcacaggg 360
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ggactcctgc tgatgcttct ggcgaggact ctgctcatc tctctgtga tggaggaggg 480
cttctaacac ttggactttt gcttaatccc ctttctggag aacacttggg ctctagctaa 540
tctcctttt 549

<210> 7905
<211> 461
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220089g04a1

<400> 7905

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catctctccc tctctctcat ctctcccttc caaaaaaag caccaatttt ttogaacgcc 120
aacggaatc acgaagaggg tcaccgagaa aatgggtgtt tgtgggtcga ggcccaaagt 180

gaacgaggac ctctcagcga agaagaagaa caaccaccac cgaagaagaa gaaggagaat 240
 cctcagaaga cgcgtctctt ctagaaagat cgaagctaac aacgtttctc actgtaattc 300
 agctcttcaa gcttctaata gcgcttctga tgctgcttgg tttgattcta cttcggcatt 360
 ggattctgag tgtgatgacg aattttacag tgtctatgat gatgggatgt ctttgaatga 420
 gtatgaaaat gggtaaggc caaacgattc atctcctaaa g 461

<210> 7906
 <211> 431
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089g04d1

<400> 7906

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 atgtcatttg aaagccacct atgggaggac cactcggaac aattttggga catgttatgg 180
 gtaaaactct ttatggtgaa gcttagactt aaaagccaaa ctgggtgaaa ttgctgtaat 240
 caagtttatt caaccgtatg gcacataata aatgctttgg caagtcttcg gccttggttc 300
 cctgaattgt caaaccaaaa tccaggttac atagcttaag tctttcaatg aagccttaaa 360
 atacctttct tgcatatagc taaatctgag gacatccaaa tttatttcaa ggtagttttc 420
 tcccaagaaa a 431

<210> 7907
 <211> 590
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089g05a1

<400> 7907

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 cacgtgagtg ccggccatgg ccgcatcggg aagcaccgga agcaccctgg aggacgcggt 120
 aatgccggag gcatgcacca ccaccggatc ctctttgaca agtaccaccc tgggttcttc 180
 ggcaaggctg gaatgcgcta ttttcacaag ctccgcaaca aattctactc tccgatcctc 240

aacatcgaca agctctgggc cctgggtccg caagaagtga aggacaaggc ctccaaggag 300
 aacaaggcgc cgctgatcga cgtcacgcag ttcgggtact ttaaggttct cggaaagggt 360
 gttttgccgc agaaccagcc cgttgttgtc aaagctaagc ttatttccaa gatcgctgag 420
 aagaagatca aggaggctgg cgggtgctgtt gttctcaccg cctgatatta ttgacgggtat 480
 cggtttttca acaattaagg gtttttttat gtttggctcg atacgtttcg tttggatgac 540
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<210> 7908
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220089g05d1
 <400> 7908

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 ccaaaacgaa acgtatcaga acaaaacaaa aaaaaaacc taaatcgttg aaaaagcgat 120
 accgtcaata aaatcaggcg gtgagaacaa cagcaccgcc agcctccttg atcttcttct 180
 cagcgatctt ggaaataagc ttagctttga caacaacggg ctggttctgc ggcaaaacac 240
 ctttccgag aaccttaaag taccgaact gcgtgacgtc gatcagcggc gccttgttct 300
 cttggaggc cttgtccttc acttcttgcg gaaccaggga ccagagcttg tcgatgttga 360
 ggatcggaga gtagaatttg ttgcggagct tgtgaaaata gcgcattccg accttgccga 420
 agaaccagg gtggtacttg tcatagagga tccggtggt 459

<210> 7909
 <211> 473
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220089g06a1
 <400> 7909

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 gcagtttgac tgcacagttg aattagtatg ctactaaggg gattctgctg gatgtcaaat 120
 gatgtttaag atttgatata cagtaaaaag aaattggaga ctatggaaga aatacagtct 180

002220-ET-4450

caatcagata attatagatc ttcgtcatcg tcggcaagca gcccggaag tagggtgcca 240
tcaagtaact ttttctacct gcgtaaacct gggttcaactta ggcagcccat ctcttttgag 300
gattcacctg agtgggagga tactgatatt gatggttagag ttgaggaagg aggtgactct 360
attaatgtcg caacaacacc agcttctccc tctcttttaa agctcaacag tgggtgcctg 420
ccgtcttcac gtctaccgga ggggtgcagtt attccgcgga aaattgctgg ggc 473

<210> 7910
<211> 481
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220089g06d1

<400> 7910

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gatcaaaagg aattgtacaa agtaaattggc tgaacaacgt tccttcccat taacttgat 180
ctgggtggggc cctattatta cacttgaaac atttacgcag cgatattttt ctccccacag 240
agaaaaatta caagatgaac ccaaaaattc gataaccaat tgccataaga aacaaaacca 300
acaaattttt ccacttcgaa ttgggtgtccg gggagatatt ggacacattt tggagagctt 360
gaaacccaaa tatgggcctt acctgcccc ctgcaaagga gggttcctagg gactcattct 420
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t 481

<210> 7911
<211> 432
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220089g07a1

<400> 7911

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catcaacgtg cagctgaagg ccgagcccc caccgatgag gtgtttgctc aggtgacttt 180

gcttccggag ccaaaccaag atgagaatgc cgtggagaaa gagccaccac cacctccgcc 240
 accacggttt catgttcatt ctttctgtaa gactctgacg gcgtccgata cgagtacca 300
 tgggtgggttt tctgtgctga gacgacatgc tgatgaatgt cttcctctctc tggatatgtc 360
 gaagcagcca cccacacagg aattgggtggc taaggatctt catgcatatg aatggcgatt 420
 taaacatatc tt 432

<210> 7912
 <211> 500
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089g07d1

<400> 7912
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 tatgtacagc aacaactaca aggtgggatt gttttaaaaa aaaaaaaaaa gcaaggtcga 120
 tatcaccta tatcacctca ctcaaaaaca caattgatta aatactaggg attgtataac 180
 tgggcaggca tatactacta attccgggat ttccaaaatt ggacgggatac tactctttta 240
 atgccatctt atatatttga tttgaagcag tcaactgataa gcagcagtcg gctctgattt 300
 catcttcaag ttatgttttc caactggatg gatggcttca tgacagttcc ttactttcca 360
 tcccagaatc tgaaagctat ggaaatcaat ctactaatca ttaggcgtca aggccatttt 420
 ctgaattgaa ctcttgatgt ggctgacatt taacaacttt tgcactctgca ccatcactag 480
 ccatcaccga ctggttctct 500

<210> 7913
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089g08a1

<400> 7913
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 agggtcgaat tgagtcttcc catgttcata ataatagcag tagaacttct actagtttcc 120
 aattggataa gcgggggaat caaatgtag ttggaaagag aagcaatatt tcatccagtg 180

caaaagaatc agaagttcag cctgtcacta gagatgcac atataatcca gtttcaaaag 240
 agaattttat ggagtcaaaa acacaatttg gtggcagggg aaagagatat gtctttactg 300
 gtaaaaattc aaacccaaga tcatctgggc cagctccaag ggttaatcgc ccagactctg 360
 gaggatttat gaggaggccc tcgtccgaat atgcagcgca ctgaggtttc agttcgggaa 420
 aatgctgaca agaggcaggc tactagtttc ggttttgact g 461

<210> 7914
 <211> 488
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089g08d1

<400> 7914

aaataatctg catttttttt acgatcaaaa gaaaacaaag atcgaccatg cttggttgat 60
 agatacacca ttgcaaaacg acagtgtcca tcaaagccac attaccatgc taaatactag 120
 tctccaatat cccctaccac aacctgggtat ggaatttggt gtagccagca aaaatcaaca 180
 atcaacctcc caagtagaag ctttaataca aacttttatt ttctgccaga tcaaaaatta 240
 ataacaaagc ctttctgag ttttttcaaa tccagctgat ttttctcgct cctcatgaca 300
 ctgttgatgc cccactaatg gtctgttttag ccacatatat ttgctttacc tttgttgagg 360
 aaaagttctt atctgatccc agagattgat ttcttcttg gtacactcta cgatgggacc 420
 attcgcccc agaattattt ctctgagaaa caccacctct ctgataatta ccatgtcctg 480
 aggaatgg 488

<210> 7915
 <211> 440
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089g09a1

<400> 7915

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 ctccctgcaa ctctgtgttc actggttccc ttgatggtga actcttcagc tcctcttcaa 180

tcatttttaa agctctgagc ttaaacaaaa cattggatac gacatggggtt ttcagagggtt 240
 tctcataata tgaccaatgc tcggtaaggt ttctgctttt gccggttact agttgatact 300
 agtgtccaaa gagagacaag ggccattatc tgtgtgctgg ctgatctgta gatcactccg 360
 atgaggtcag atatagacct tcttggttat tatacttttc tctaatagaa aattctcctg 420
 cttttgtgca tatgttcctg 440

<210> 7916
 <211> 596
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089g09d1

<400> 7916

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 gtatacatga aacggccata tatacaggac tcagtactag ttagcagctg gaggtaagcc 120
 acattggcaa atcaacataa catttataat tgcttagaat agtcacctga aaagagaaaa 180
 ttcaaattcc aaaaccattc taagatatat tcatgaatca taaacatatc atcacgtatc 240
 tggcatgacg ttaatagttt ggccttcac atatggccta atgaaagtcc tccgccacca 300
 cacctgaaaa gctctctgaa gattgggaca gccatcacca gttttcaaga aacttgcaac 360
 ccatgaaagc aaaatactct gctgatectc caaaggcaag gcgagaattg tccttgcaat 420
 tccttctctgc acaagtttcc tatcgaatga cccggaccg tgctgcaacc agttatagtc 480
 attgattaga ggctgtagcc atgtctgcaa caagaactgg cgtgtgtact ttgatggcaa 540
 aacctacctt cttccaatgc caacatatag tctttctgaa atgcaactga catgat 596

<210> 7917
 <211> 385
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089g10a1

<400> 7917

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actcaaagat gatcactgtt tctttctttc totatatctc aaaaaggaaa ccgacaacac 180
 aaaggatttg cagaaagtgc agctacttag ttccattttc atcctctctc cattaacttt 240
 cagtcaaaac aaaacaaaac ctcttttaggt gtgaaattcc acgtgccaaa atcatctccg 300
 aggcaccaac atcggcagcc acatattttc ttattttattg aaggaatcag tatataaaac 360
 acctgctttc taacggtggc gcacc 385

<210> 7918
 <211> 556
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089g10d1

<400> 7918
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 aagttggttt attgggaaca ggttttataa aagatattgg tttcttcacc tttgcgtgga 120
 ttgttgacaa aatgttaaca tcaaatecat tgagttgata atctggaata aactcagctt 180
 ccaacctaag tactgctttg tctttatctc taaacaattc ttcaaagtgc tgctcgtac 240
 cacttaaact ccattcgtat ctacctcaaa ggcttaaagc ctttatcatg catcctccaa 300
 cctcccattc cctactccct actcttcaaa tagtatttat tcaaataaca gcagcaaata 360
 gtaacagttt aaccataaac cacataaaaa ttcagtgaac tggactccaa ataactctaaa 420
 aaagcataaa cagataaatt aaaataaata aacagaagaa agccttggtc tttctttaac 480
 caaagaaaga gaaataatag aataaagaaa taaatgcgta ttccatgtca accagtgggtg 540
 gaggaggata gccact 556

<210> 7919
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220089g11a1

<400> 7919
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002220 "CTT556"

ttcaattctt taatcatcat tcacaacctt tctaaaagca tggggcttct gtggctgcac 120
ataacatacc ctatctgagg agagactttt tctgagcatg gggatcata aaaggatgatg 180
attagggtag tgggtcagtt ttctgccgcc atgaactata ttcagatggt taactccaaa 240
aacagccaca tgggccagca aagcagctat agtgggggtg tacaatgtgt ttcggactga 300
taaaatacca ataagtgttt cttaaaaaaa ttgtacaaac tctcaatggg ggaactataa 360
tttgattctc gaaaatgcaa tngattgtaa ctttaagtat atg 403

<210> 7920
<211> 444
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220089g11d1

<400> 7920
ctggggattg ggtttatggt tgttatcttt tacattgtgc tttttattaa cgggacaaaag 60
ttgttgacgc caaagaacgt gaaggaccaa aacgccgga cctccataaa caaagggtggt 120
gtcaccaca cagacaccgg caccatatgc caaagcaaca gcttaggggg aggagtaacc 180
gacacagcca ctggcccccc ccgccgtaag agcttcatgc ggcccatggg ggcttcttag 240
gcggaaaacc ccggaaaatg gcaaaggggg gaaaaaaacg gccccgaac cccaaatacc 300
ccccttgaaa accccccgag ccaagaaaaa ggcccccca aaaagggggg aatgtgatgc 360
cccccaaga accccaggct cataaaacgg ggggaactgt aatgactgaa gaggcctttc 420
ctcgggcagg ggtaaaaactc gagg 444

<210> 7921
<211> 591
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220089g12a1

<400> 7921
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acttcccgcc ttcttcaact gcttctcgaa cttcttccct tttgaagcta ttaatactag 180

ttccttattc agtttctaga tatcttagga agaggagcac agaaaaccac ccctctctct 240
 ctaagcacag cctaagatgt cttactcatg atttcctgct atctcaaatt gctgctacaa 300
 gcaagaagaa gtggagtctg attgaactct gaagtgggca gaatgcgttt tgaaatcaag 360
 tggaccttga gtgcttaccg tagtgtacaa ttttgaattg ctttgccaat attgctgggt 420
 gaattgatac agtgggaggc aatcaatagt tgtaacttgg atattcttaa ggaaatgtaa 480
 acttgataag ttggagctcc accaaagtag taaagataca ttccanagat gatgaagaaa 540
 caattgacag gcatacgng tgattctncc cctacaatcg caatccgagt t 591

<210> 7922
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220089g12d1
 <400> 7922

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 caaaggggga accatgtaaa tcaactgagta gattcaccgc cgaatgaacc caacttgaaa 120
 accctaaaca acagcggcaa ccaatgcgta acagacacaa acaccaacat cttatcccag 180
 ggagccttct aaccctctgt aagcccgat accgcaaagg gcctgatctg aacggagatg 240
 ctctaaaaa agaaaccac caacacagac tgcgaacagg gccaaaaaag gagggggaac 300
 cccggaatgg ggaaaaaac atcttaagag cttgccaccg ttgaaagcaa ggcacgaagc 360
 ctgcaaaatt tcccctaaac cggaagcgcc cactggcatt acaggacca aaaacctcaa 420
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<210> 7923
 <211> 498
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220089h01d1
 <400> 7923

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002280"ETFE50

attaacatca tatttctttg aacagattct cttgtaagca tcatttcaca tgatatgata 120
aaattacaac aaaaattctg ataaacataa ctgggcaaaa atgaaggaat gcgctttgag 180
caagaacat aaccttatgt cggttattca ggggaggaca ttacaactga taagtacaaa 240
ttgccaaacc aagatgtatt ccaatccttt gtgactatag ctcttctatc tccaattcaa 300
atttttaact cttctgatca ggggtggaatg ggcgtataaa tgcagaattc atttgccaaa 360
cttttagtga ggctgtcaca gtggcctcgg tagcattgtt gaacaagaac aacctagcag 420
ctccatagat tgcctttngt ggataaacc gagatgtcac aaccgtcctt ccaccttgag 480
caaagctttc aacaatag 498

<210> 7924
<211> 426
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220089h02d1
<400> 7924

ggctatatat atatatatat atatatatat atatatatta tgggacaaat tttcattttg 60
aaaggccaaa tatatacaaa aaacaaaaac ataaaagcat ttcaataaca atatatcaac 120
tatgctccct gcttttattt cttctttaac acccttttct taatagcttt tttttttctt 180
ctcttattca cgccaatgaa caatgagaat ttttctccct ttgcactagg aaatctataa 240
acaacttgta gtgggttggtc caattattcc ttggcagtgc tggttctttg ccctgatgat 300
gccattagca cagcaacagc cacaataaac ataaacaaca tactccctag cagtatatat 360
ggccttcttg atgaatttct ggactcccca aacagaacca cgccccaaaa agtgcttaca 420
agtgga 426

<210> 7925
<211> 377
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220089h03a1
<400> 7925

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gttcccttac actaccaacc aagtcagga caggtttgtg gcctcactca actccaacaa 120
 ggccgcagaa gcacaagccc agctcttcaa gatggccaat gaaggaagaa tgaagcctag 180
 accatgatga gcaagataga ttattaagta atcttaatta gtttaatttt gtgtgttgat 240
 tcaacttaag aacatttata ttttaagattt ctgttagttt gtatcattta aggtctttac 300
 atgtgttcat taatatgtct tgagatggat atcatgtttc ttcgaaattt aatgcaaact 360
 ttatggtttt gggtttg 377

<210> 7926
 <211> 377
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089h03d1

<400> 7926
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 catattaatg aacacatgta agagccttaa atgatacaaa ctaacagaaa tcttaaatat 120
 aaatgttctt agagtgaatc aacacacaaa attaaactaa ttaagattac ttaataatct 180
 atcttgctca tcatgggtcta ggcttcattc ttccttcatt ggccatcttg aagagctggg 240
 cttgtgcttt tgcggccttg ttggagttga gtgaggccac aaacctgtcc ctgacttggt 300
 tggtagtgta agggaaacttg gtgttcacca tggagttgag gaaggaagct gtgccttctc 360
 tgtagagtgc tcctagc 377

<210> 7927
 <211> 492
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089h04a1

<400> 7927
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 gcaacaacac tgcagttgct gaggtgttct ctgcattga ccacaaattt gatctgatgt 180
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ctgaagctcg tgaggatctt gctgctcttg agaaggacta tgaggagggtt ggggctgaag 300
gagcgggaaga tgatgaggaa ggagaggact attcataaat gaaggtttta ttatcaatgt 360
aattgtttcg agtaaaaagg gtatatgctt cgttacatta ccctgaacca gtattgttcg 420
ttcctttttg gttttactcc tgtgtgatat agttctcatt attcaaactg tgaagtgata 480
tcatcattat gc 492

<210> 7928
<211> 459
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220089h04d1

<400> 7928

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atgatatcac ttcacagttt gaataatgga aaactttatc acacaggagt aaaaacaaaa 120
aggaacgaac aatactgggt cagggtaatg taacgaagca tatacccttt ttactcgaaa 180
caattacatt gataataaaa ccttcattta tgaatagtcc tctccttctt catcattttc 240
cgctccttca gcccacccc ccttataggc cttttcaaaa gcagcgggat tctaacaatt 300
ttatagagaa cccaccttat tccataccct taccaacata ccagtgaaca aaggcccttt 360
tggcatacat cagatcaaat ttgtgggtcaa tgcgagagaa caccttaaca actgcagtgt 420
ttgtgctgat catgcataca gcccggttga ccttggcaa 459

<210> 7929
<211> 286
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220089h05a1

<400> 7929

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agcagtgtga atggcagatt gatcagtatg ctactaatgg gaatcagggtg gtatggcaaa 120
tgatgaagat aatttgatat acaccaaaaa ctacacctgt gactaagcaa caaattcaac 180
ctcaatcaga tacatataga tcttcctcat attttgaaag aatacactat tgtatggagc 240

cattgagtaa ctgtgattac ttccgtaaac acggttaact tatgca

286

<210> 7930
<211> 555
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220089h05d1

<400> 7930

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gggggttccc attgcaaagg aaattcagcc tcccctgggtg ccctgccagc tccctgcacc 120
ccagggagca gactgactct gggaaagcgg gcaggttatg gcggctgatt tatcgaggc 180
ccagctgcct tcccgcacct ctgagctcc ctgtgacctg gcttcccagc aaccttatt 240
ccccaaataa cctctggagg ggcttaatga ggggaggctg gataacctca tcttccccac 300
tgccctctcc tttctcccat gtccacctct tgggagtgga atttatgtcg tctccccaga 360
gactgtgctg aaagtcaaga tgtctgagcc aaagactcct tagagatctg ctagtccaga 420
aagacaaatc agcagccctt tgctgttggg tttgttctgc ttctcagtct gcacagttaa 480
taaaaactaa tatatagact tagttgcaa caatttaaac agaaataggc tgcacactaa 540
aatctgattt ctgat 555

<210> 7931
<211> 540
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220089h06d1

<400> 7931

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agggagcaga ctgactctgg gtaagcgggc aggttatggc ggctgattta tcgcaggccc 180
agctgccttc ccgcacctat cgagctccct gtgacctgtc tcccagcaa cccctattcc 240
ccaaataaacc tctggagggg cttattgagg ggaggctgga tacctccatc ttccccactg 300
ccctctcctt tctcccatgt ccaaacacct aaaacggaat ttatgttgac tcaccataga 360

ctgtgctcca cgatgagatg tctgagccaa agactcctta cagatctgct agtccagaaa 420
gacataacag cagccctttg ctgatgtttc tgttctgctt ctcagtctgc acagttcata 480
aatataccgt ctccgaatta tgtgccaaca tttaaacaga aataggttgc acattaaaat 540

<210> 7932
<211> 406
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220089h07a1

<400> 7932

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agcccatcaa gcagattatt aacacttgta tgaatgatca gaaggataag ctgtggccta 120
tgctgcaaaa gcttgggggtc accatgaaat ctgaggagaa ggacctcatg ggtaaagcat 180
tgatgaagcg tgtcatgcaa acctggcttc cagcaagtag tgctctattg gaaatgatga 240
tatttcatct acctcttca tcaacagccc agaagtatcg tgtggagaac ttgtatgagg 300
gacctcttga tgatcaatat gcttctgcta tcagaaattg tgatcctgaa ggtcctctga 360
tgctctatgt cttcaagatg attccaacat ctgataaggg gagaat 406

<210> 7933
<211> 408
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220089h07d1

<400> 7933

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aaaatacatc gatgcaagga ccaaataaca gcattacaac attcacgggc aaaaccacaa 120
acaaaactaa cagaaattaa atctaaagta gcattgttca caagagaaaa taaattcgac 180
taagttcaaa gtaaaataat tcatgaaaca aatttaaagc ttgtcttcaa actcggagag 240
aggagtcac tggtccttca agcccttcct tttgcgaatg tcagtgcacaa gctgtgcagc 300
ttgtgatcca gcctccaatg ggtcagaaga catcatgtcc cagtgatcaa acacacattg 360
tggaaggcc tggcctgatg ttgcagccct taatgtgctc gagaaacc 408

<210> 7934
 <211> 508
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089h08d1

<400> 7934

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 aaatagcaaa ctactcgaaa agtggcagaa tgtttgagaa cagaataaca aagcagttag 120
 ttgtaccacc atgctttgcc agcttcagta aaatgacaaa catcagatct attctctata 180
 ctaatctgct caagacaagg aaaaaaaca cttctcaact ggatccatca tccaatacca 240
 gatccaaatc tgttcgatac atgaaatgac ctggcaaaat gagttacaaa ttaggggtga 300
 ttcagttttg cattcaatca aagctacaga tgaaagtgg gcaaaaagaa aatacatacc 360
 acaagtcacc gtatttcaac tatccacgtt aactaaaaat attgctcgat atccaaaatc 420
 ccaggaatca tcaaaatagc atatgttagc atttgattct tcctttttta ttgaacttcc 480
 taaatcccat acaagacact aacatcta 508

<210> 7935
 <211> 459
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089h09a1

<400> 7935

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 gagtcccgat gccggagcgg cgggatccgt ttcgagctcc gtcgccatga tcggagcttc 180
 ggttggtgctg tcattgatgg ctatcttgaa gcattgaatt cgttaatttc gttgggtttg 240
 taaaaattg attcgtttta tatacagagt ggtgattatg agctttggta tctatactta 300
 taggtatacc ggagagagat tatacagtat ctaatatact tattgttatt tggtttagga 360
 cttagggaga ataagaagga tttatcctt tacattggac cccgattctt tttcaatttt 420
 tgttatgtaa taatatattg cgattgatga tttatatat 459

<210> 7936
 <211> 417
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089h09d1

<400> 7936

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 gtgaaaaaaaa aaccgggcc aacggaaagg aaaaaacccc tccaattccc cctaagccct 120
 aaaacaaaac acaatcacac ttttaaaacc cgaataaacc ctccccgcgt tccccaaaac 180
 tataaacccc caagcccaaa atcccccccc tggtttataaa acaactcaat ttttaccaac 240
 cccacacaaa ttaaccaatt ccaggcttaa aaaaaccccc caagggcacg ccaacccaag 300
 cccccaactt gcaaaccgcc ctcaaaacgg atccccccct tccggctttg gaaccggga 360
 cccggaaaag gccctgcccc ttgcggcgg caaaaaaaaa agccccccc ggaaaaa 417

<210> 7937
 <211> 386
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089h10a1

<400> 7937

gtcaatactc attggattag taaatgctta gaatcaagac attatacaaa acaacccaaa 60
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 caaatcatta gctgttatac aacacaattc attgggtgaa acaataacaa tcaggtgagt 180
 tctaattctc ccttttgctt tatgtctaag ccaattatca ctactataa ctcttacttc 240
 caaccattgt gcagaatcaa actatagaag ttacaactac aagtcatgaa agcaacgaag 300
 aattgcttca tctaagctgc atatacactg cactctatac tttatcttca ttaaaggctc 360
 catctgggga accatgcatt atttta 386

<210> 7938
 <211> 586
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220089h10d1

<400> 7938

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tcgcgatcta gaactattag agactgaaat aacaaaaaag caatggatct cagagagggt   60
caaactcaac caattttgga tcctaaccac ccctctcatg tatatcatct ggctttggat  120
attggaggat ctcttgccaa gttagtatac ttcacaaaag atgatgatca tttggttgat  180
ggcgaggagg gaatatctca tagaaaggct ttggaaaaat ccaatggcag taagcaatat  240
cctgttctaa atgggagggt caattttaag aaatttgaaa caagcaagat aaatgattgt  300
atagagttaa tcaagtccat gaaacttcac attggaggta gtcagccaca agaaaatcct  360
ggaagtccgt caatagctat taaggccaca ggtgggtggg cgtacaaata tgcagacctt  420
ttcaaggaaa gactgggaat catttttgac aagggaagatg aaatggattg tcttgttgca  480
ggagcaaatt ttcttcttga ggtggttcac caggaaagcat ttacctatat ggggtgatcaa  540
aagcaatttg tgcagattga tcagaatgat ctgtatccct atcttc                    586
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<210> 7939

<211> 441

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220089h11a1

<400> 7939

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tttgctttct tcctcaaaac caaacatgtc gaacacatgc ggcaactgcg actgcgctga   60
caagactagc tgcaccaagg gaaacagcta tgggtgttatt gtagagactg agaagagtta  120
catccagact gttgtcatgg atgttcacgc agctgagcat gatgggaagt gcaagtgtgg  180
cactaactgc acttgcacgg actgcacctg tggccattaa ggaatatgta tgaaaatgta  240
attgccatgt gtttggaat acaaatatcc aaataatgta atcttcgcat gaataaatgt  300
gtgtgctgtt atcctacttc aggtcttggg agtcatgcc tctgaataat ttaaggtcct  360
gtctagttaa tatacaacca atgggtgtggc attctatggg ttattagact aaacaagcgt  420
aaatttaccg tcaataattc c                                     441
```

<210> 7940

<211> 458

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220089h11d1

<400> 7940

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actacgcctt tttccatata gttttactat actcttttaga cccggtttat ttttctcttt 60
cgaactatca tggtttttgc ccaatcagta taccgcgat accccagtac aaactcgtca 120
tcgtcggatga cagcggcaca ggaaagacaa cgtaagtga aaggcatcat accggggaaa 180
ccagatgaat acaaccaacc atgagagagg tcatacgaga ttgatgacag cagcggacag 240
attcgtctct actggtggga gacagctgga catgagaagc taggaggccc cacacatgga 300
gatcatatac atgggcaatg cgcgattata atgggtgaag aactgccc tctaatac 360
aaaaatgtcc ctacctggca cgggatctt tgccgggtct gtgaaaacat gccaatgtg 420
cttttgagga acaaggctga tgtcaagaac aggcaagt 458
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<210> 7941

<211> 558

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220089h12a1

<400> 7941

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tcccacagtc ggaggacttc tgaatgctac atgtgggaat gttactgagc tcataatagc 120
aatatttgcc cttagcagta acaaaattgc tgtggtcaag tattctctgt tgggttctat 180
tctttcaaac cttcttctgg ttcttgggac ctctctatta tgtggtggca ttgcaaacct 240
taaagtggaa caaaaatatg acagaagaca agcagatgtg aactcactta tgctgttggt 300
gggattgttg tgctacttgc ttccaatgct gttcaaatac agtgggtgcct cagctgctct 360
cactgtagac ccttcaactcc acttgtcaag agcttctagc attgtgatgt tgattgcata 420
tgtagtctac attgtctttc aactgtggac acacaggcag ttatttgatg ccgaagatga 480
gggtgaggat ggtgaggacg gtgaagaaga acaagctgtg attggattat ggagtggcaa 540
ttgcttggtt ggtaggga 558
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<210> 7942

<211> 534
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220089h12d1

 <400> 7942

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 gcaaactgaa aaagggattt cttactaaag caaactcaaa caagaacaac ttccactcat 120
 ttggcatcta ccgtagtaga acaggatcaa aagcagctct ctgatagaac acacgtatgt 180
 attatattga acatcttgca cagtgggttca tttctcacag ctattgcaac ttaaaatact 240
 tgcaaagctt ctgcaaattc caaactttct tttctccct tctttatgga tatgacaaaag 300
 tgatcagatc atgaaacaat aatcaatcca ttgaatttga atctgatttt tggtttggat 360
 cgatgccacc attcttcac ttaggaagg acaacaaata ggccaaagcc tactaattaa 420
 gcgcttaaaa ctgcattagt ggttgggtta agtgtgatgt tagtatcacc agcttgatta 480
 tcaaagggtg ctctttgtac gaagaagcat gcccataa caatgtagca cagc 534

<210> 7943
 <211> 306
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220090a01d1

 <400> 7943

aagcaataat aatatttgtc atggtggtac acttgttttg ccaaataatc tcttgccaag 60
 accaaaccat cttctttttt tgagcttgat gaacattatg ccatcacttg gttaccaatg 120
 ggaggctaata aattcagctc atgatgttaa tattgggtcaa tggcaaaacc atggatttct 180
 taaccaaaca gatgtacaca goatcaatgt ggttccattt ccatcaacat tggctctatc 240
 aactgggagt gatactacta ctacttctca gattttggtg tgtcctcctc atggagcaac 300
 aacaca 306

<210> 7944
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090a02a1

<400> 7944

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tttggctttg agaccattcc tgaagagtgc gttgaagcaa caaaggaata catccatggc   60
gaacaatata gatcagactc caaaacagtt aaccaacaag cttactttta tgccagagac  120
ctcgaagtcc atcccaagga cacatttgtg ttcagtatag atggcaccgt actctctaat  180
attccatact acaaaaacat ggatatgggg tggagaaatt taactcgacc ttgtatgatg  240
aatgggttaa caagggcaat gcaccggcac tgcccgagac tcttaagaat tacaacaagc  300
tgggtgtctct tggcttcaag attatattct tgtcaggaag aacactggac aaacaggccg  360
taacagaagc aaacttaaag aaggctggct accacacatg ggaaaaatta attctcaagg  420
atccacaaga tccttccact ccaaatgcag ttccatacaa aacagcagcg agagagaaac  480
tgataaggca gggatacaac attggtggga tcattggaga ccaatggagc gatc       534

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<210> 7945

<211> 538

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220090a02d1

<400> 7945

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ttaccttcca agagatgaag catttggtca cttgaagtca tcagattttc tcgcttatgg  120
aatcaaactc gtatcccaag atgtcttgcc tgtcttgact gatgcattcg atggaaatat  180
tttgagcctt gagtttgata attttgctga agtgcacaaa ctctatgaag gtggagttac  240
actacctaca aactttctta gcaagatcgc ccctatacca gtgatcaagg aaatttttcg  300
aactgatggc gaacagttcc tcaagtatcc accacctaaa gtgatgcaag tggataagtc  360
tgcatggatg actgatgaag aatttgcaag agaaacgatt gctgggttaa atccaaatgt  420
cattaagatt atagaggagt tcccactaag tagcangcta gatacttcaa gcctatgtga  480
tcataacctgt antatagcan aagaacattt ggagcctaac tangtgggct cactgtga   538

```

<210> 7946

<211> 576

002250-03200

<210> 7948
<211> 588
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220090a04a1

<400> 7948

gtccttactt atatgcggat gatctgattg aagtcttgaa gaaaaaacat gcttctggaa 60
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ttcttcccgga agatatcaat atttatgcaa ccacagcttc caatgcagaa gaaagtagtt 180
ggggaacata ttgccctggg gagtacccta gtcctcccc agaataattca acctgcttgg 240
gtgatctgta cagtgttgct tggatggaag acagtgacag acacaattta cgaacagaaa 300
ctctgcatca acaatataaa ttgggttaaag agaggactat atctggagat tcatactatg 360
gctctcacgt gatgcagtat ggtgatgtac ggcttagcag tgatgttctc ttccattatt 420
tggttacaga tcttgctaata gataatttca cttttgtgga cgaaaactcc ttatgggtcac 480
cttcaaaacc agtcaaccaa cgtgatgctg atctcatcca tttttgggat aagttccgca 540
aagtcctga gggttctctc angcaaaatg cagctcagaa acaagttt 588

<210> 7949
<211> 543
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220090a04d1

<400> 7949

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ataactttga catcataaat tcttccaaaa taattataca aaagtgacaa gggaaaaccc 120
gatctgccag ttgcctactg aataaaaaaca cacatcatta ctatgtgttg gcatacacgc 180
atgaccttgt gccttgatcat gagtgaatat tccaaagcaa ttggtccttt atgcctcctt 240
aatccttatg ccacaaaatg ctatcatccc ttgaaagttg taattgcttc ttcagaaata 300
gatttatata aaggtagttg caatatctat ttgccaaact aaaaatgtaa agacccttct 360
tcccaatcct agtagtgtcc caattgtatt taaaaggcg ggacaaaata tgtatatata 420

agtacaatca tatagcataa tgtaacaata atcatacttt ggtctttact ggtgcacatt 480
 acaggaatta ttatgcactg aaaccccttt gcagagaact ccaaggattg gaaggaatag 540
 aga 543

<210> 7950
 <211> 564
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090a05a1
 <400> 7950

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 acgcattgtg tgcattgatg aggagatgaa agtttctcgg cgggtggagt ggtggcagaa 120
 catgatgttc cccgttcgga ggggttggtt tgcgttgcc aagcgctcgc gcattcgcaa 180
 aactgggtta ctgaagctaa gtaatgatgt gagggcatgc gaatatgagg acattcaagt 240
 gatgtgggag atactaaaca gaaacgaatc agagtttggt cggtcttcta gcactaggaa 300
 aggcaacaac aagaaggggc attgctggaa attattgagg tgggcaaggt gtgctccatg 360
 catgtgccgc acatgatcat gattgctgtg tacgtgagaa gaaaaaaatc caacctatgt 420
 gttggtgtgg tttttgctgc ttcaatcatg aataaaaaaa aagggttctg aagggtttgt 480
 gtagatcacg gttcttcttt ccttttgaat caaccaactc aaccatattg aaatatcaac 540
 tgcattcacc aagttcgatg.tgtg 564

<210> 7951
 <211> 464
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090a05d1
 <400> 7951

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 atacatgaac gtctgggtga acacatacca agatgatgat gatgatgatg aaacacagca 180
 gaaactacac atacaacaat ttcgatacca cactaattaa gcacatggat ggagtatgag 240

atggtcacac acatcgaact tggatgatgc agttgatatt tacatatggt tgagttgggt 300
 gattcaaaag gaaagaagaa ccgtgttcta cacaaccct tcagaaccct ttttttttat 360
 tcatgattga agcagcaaaa accacaccaa cacatagggt ggattttttt cttctcacgt 420
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<210> 7952
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090a06a1
 <400> 7952

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 gctcaacgat cctctcgagg ccatcgatcc cgagatcgcc gacataatcg aactcgaaaa 120
 ggcgcgtcaa tggaaggggt tcgaacttat accttcggaa aatttcacgt cgctgtcggt 180
 gatgcaagca gttggatcgg tgatgacgaa taaatacagt gaaggatata ctggtgctag 240
 atactatgga ggaaacgaat acattgacat ggctgagacc ttgtgtcaga agcgtgcact 300
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 c 361

<210> 7953
 <211> 513
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090a06d1
 <400> 7953

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 gtcctaaacc accaaataga agcataatgt tgatcacttc acagtttgaa taatggagaa 120
 ctatatcaca cagcaggagc aaaaacaaaa aagaacgaac aataatgggt cagggtaatg 180
 taacgaagca tatacccttt taactcgga acaattacat tgataacaaa aaaaagcctt 240
 cgattatcaa tagtcctctc ctctctcatc atcttccgct ccttcagctc caacctctc 300
 atagtccttc tcaagagcag caaggtcctc acgagcctca gaaaactccc cttcttccat 360

accctcacca acataccagt gaacaaaagc cctcttggca tacatcagat caaacttgtg 420
 gtcaatgcga gagaacacct cagcaactgc ggtggtgttg ctgatcatgc atacagcacg 480
 ctgaacctta gcaaggtcac caccaggaac aac 513

<210> 7954
 <211> 295
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090a07a1
 <400> 7954

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 gagttcggct tctgcctagt gtattgccgt tctaaatctt atattgtgtg cccttttcta 120
 tgtattaacc ttggtattgg atttttctac gaaaatgggt gatttacatt ggaaatgaaa 180
 gatgcctagt tccaaaacac caggactctt tctctgcgac aacaagtcct taccctcttt 240
 ggtactaccg ttcgggacca cagatatcta tgccgtcgct tctttcgttt gcgcc 295

<210> 7955
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090a07d1
 <400> 7955

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 tccaagcttg gaaaatacgt tggttcaagg aaaatctgag tcaacgagtc agccgaatcg 120
 caactcaacc caactcgggt accgtagcc tctgaacttc ccatcaccac cgtcaacacc 180
 tgcttatacg cgtagaagaa tctcttcac gccgtctaaa tcgcctgcat tgcttgcaac 240
 aagtgaacct tctcgaactc gctcttcgaa acgtagagct tcatcgccgc ctcttgaatc 300
 cttggtcctc cctttggatc cacctacacc tgcaatatct gcggcacctt gtgcctcaga 360
 tctctgcaca tcttcgtcag ttccactaac tcattcgatc tgaagcagaa cgatgccgtt 420
 tcgccgctcg aggatttcac cgagagttga ttc 453

<210> 7956

<211> 473
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090a08a1

<400> 7956

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 taaccttcct ttcgatcctt cacctcgcag ataatgggag aaacaaagga cgaagcatat 180
 gaggaagagc ttctcgatta cgaggaggaa gacgaaaagg ccccgactc cgccggagct 240
 aaagtcaacg gcgaagctac caagaagggc tatgttgga ttcacagttc gggattcagg 300
 gacttccttc tgaagccaga gcttcttcgg gctattgtgg actcgggatt tgagcatcca 360
 tctgaagtgc aacatgagtgc cataccacan gcaattctcg ggatggatgt aatttgcata 420
 gcaaaatctg gaatgggaaa gactgctgtc tttggtctct ctactctgca gca 473

<210> 7957
 <211> 519
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090a08d1

<400> 7957

gcgggcccgc cttttttttt tttttttttt ttttttgaga gcaagaaaca agcttacttc 60
 acaagattat acaacttatt agttaagcaa aaattactca tgctctcgta gaggtatttc 120
 cagatcatga cagagacaac gcaatccgga agcaagactt aatagaagta ctactaagta 180
 aaaaataaaa taaaagccct tcatagttaa catatccttt aactttgtgt tttcttgaat 240
 ctaaagcaca ataaaaacat taaacaccca tagtggatac tcaaaagtat agtgaactct 300
 ttactttgcc aatgatccaa gctcatggct cgaagttctc atgttcatct tcaaaactct 360
 gctggttctg gttcccgttg tagttgccac ctctgttggt ggaccagttg ttagtggtca 420
 cttcccttga tgagtcacca tagtttggtg gattgtactt ctcggcggca acgtcatgaa 480
 agtatcttcc acccttcaaa aaccttgtgt cactcattc 519

<210> 7958
 <211> 530
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220090a09a1

<400> 7958

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agtctgcggc cgcccttttt tttttttttt tttttttttt gtgctcaaaa agagctctga   60
aatctgaagt taatattcaa atgatcaaag ttgaaaaaaaa tgcacacaca tgacctctat  120
ttatagccta agtgtcacac aaaattggag ggaaattcaa atttcacttg aatttgaaat  180
tgaatttggt gagccaaaact ttggagccaa aatttcacta attatgatta gtgaatttta  240
gttatggttc agcccactaa tccaagatca attccaagat tctccactaa gtgtgcttag  300
gtgtcatgag gcatgaaaag catgaaggac atgcacaaaag tgtgactata tgatgtggca  360
atgggggtgta gtaagcaaat gctcacctnc ccctctaaaa ttttaattgga ttgggcttct  420
accaattcaa ttaaatttat ttccaaccac acacatcaaa tatccactta gtgcatgtga  480
aattacaaaa ctacccttaa tacataaact agtctaggtg ccctaaaata                530
  
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<210> 7959
 <211> 476
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220090a09d1

<400> 7959

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cactcaataa caactaaatt ttaggtaatt cacttgtata gaagagggtta gaattcctac   60
caggtataca gtagctttct cttagtgcaa cctgctcatg gagtacaatt ttagatcct  120
tgaacaagtt attctgtata aatcgattgg tgtcaaaatt taaaaatcaa aaacaaataa  180
aagaatctgc atcactactt gtttgatttt gctgagtagc taaaaattca gttaaagcat  240
ttcaagaaaa tgtctgcatt agtccctttc cttccagtaa ctggttgaat catgagaact  300
ctaaccacaa ttaggtaaac tacatcttga agattctgct ccaccaaca acccatggg  360
actagagatt atctttaaac cactttaaag ctccatttgc cacagatcca gcaaagtcct  420
tcaatttatt ccatacatcg ttttcatctt ctgatttttc agttttttct tcgact        476
  
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<210> 7960
 <211> 189
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220090a10a1

<400> 7960

agctcaaaat gactttttgc attccaagca gcacagcgct agtatagcaa acattgctaa 60
 acgtttatca tggtatcatg accaaaaatg ctacgatatt ctccacggag gtataagctc 120
 atatagctaa ccacctcaaa aagccaaaaa ctcatttctt ataatgaatg gagtaaaactc 180
 ctactcagt 189

<210> 7961
 <211> 510
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220090a10d1

<400> 7961

ctcagacaac ccctcatttt tatttacaga agcagcaaca atgtaaaatg ggaacggcca 60
 tgggtggggac cgaatctaata cgcgcaaaat tagctagcaa ttgtctctac atgtacccaaa 120
 cataaccag aaaaaacacc tcccaattaa ataaatccaa acaccttcta cccctaacc 180
 aaatatccct tctatcccta caaaactgct ggctgctttt tagctctctc tgaaacagcc 240
 taaaaaacag attaatTTTT taagaaagga acatttgtca atcacaagaa ttgcatttac 300
 aatcaatttc cctcaatcaa gctcttcaat ctattacggg cctcttcaga caaactgcaa 360
 gctttgaatc ttctccttng ggggtggacat gattcaacaa tgctttcaat gggcgacaag 420
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 tctccggcac attgctgtgg gtcacatgc 510

<210> 7962
 <211> 585
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220090a11a1

<400> 7962

cttattttta ctggattgca tattgtaaat agtttcatta acccgttggt ctactttcat 60
 caaccagaag aactaactcg gcgaaaaaaaa acccaaataa aaaggagaca gacatgagcg 120
 attatctcaa agagaaagga ggtcccaggt tgggttatcat gggagagacc aaacaacttg 180
 ttaccctttt gacacgattt caagcggcaa tgaaaatgat caaggacata gtggaaaaaa 240
 gtagatcgag taaaaagagc aaacgattac tgaggaaaac cctcaagaat atgactcctc 300
 tgctgcagga aatcaatcaa tacaatgaac acttggaacc accccgagaa gaaatcaaca 360
 ctcttatgaa agaaaaagat gcagtggaag agcttgtgtg ctattcctgc tccaggagta 420
 tttggtggac caaatctctc tcttggtctc cgctctacgg ggacggactt tggcataaca 480
 agaataatcc ccttgctgca gatgacaacc aagttaagta tatcaaaaac aactgtatg 540
 aggtgaaaga ggttcttgag cttctagaca tagagaattt cagca 585

<210> 7963

<211> 538

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220090a12a1

<400> 7963

cacaaggcag aaagcaagct catcctagag ttttaaaaat ggcagcagcc tcctccatgg 60
 ctctctcttc cccatccttg gctggcaagg ccgtgaagct gggcccatca gccccgaag 120
 tcgggagggt cagcatgagg aagaccgtca ccaagcaggc ctctccgga agcccatggt 180
 acggcccaga ccgcgtcaag tacttgggcc cattctcttg cgagcccccg tcctacctca 240
 ctggcgagtt cccagggtgac tacgggtggg aactgctgg gctttcggcc gaccagaaa 300
 ccttcgccag aaaccgtgag ctccaagtga tccactccag gtgggccatg ctcggggcct 360
 tgggctgcgt cttccccgaa ctgttgctcc gcaacgggggt caagtttgga gaagctgtgt 420
 ggttcaaggc cgggtcccag atcttcagcg aggggtgggt ggactacttg ggcaacccaa 480
 gccttggtcca cgcccagagc atnctcgcca tctggggcac ccaagttatc cctaattg 538

<210> 7964

002220"ETTFE60

<211> 343
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090b01a1

<400> 7964

tgttttctgg atgttaaggg atactgtcgc gaagagagga gccacgaagg gcttggaatg 60
gggtggttctc ttgtctacca aaaatttgcc aagacttggtg actgcggttc acctagatca 120
actctgaagt gctggaaaga ggaagatgaa gaagagtagt tttcttaagt gtctttatta 180
tgtccttgcg aaaataagtc cggttttcca gacagtgatt gcttttcttt ggtgttcttt 240
cccttttatg ttagaccatt gttagggcgt ttggaccttt tattgttcta ctattaccat 300
ttgaacatcg aatggatttt aataaatcac tttgtatgcg tgc 343

<210> 7965
<211> 315
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090b01d1

<400> 7965

ggcagaaatc ctttctatgt tgcttaagaa gttacctact tatagcaaga gaatctagct 60
ctattggttg tgtaaggtaa aaaaaaaaaa cgcataacca tgtcaaccaa attgattgaa 120
acaagcctta gccttatggt atggcttgta attgcaacat cagcaatagc acaatctgat 180
aacccccag ttcttgacac agaaggccac cctcttgagc ctggcagaga ttactacatc 240
acaccagcgg taacagacat tggaggccgt gccactatag tagacaacgg cacatgccct 300
ttatttgagg tcaag 315

<210> 7966
<211> 590
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090b02a1

<400> 7966

caatttttgt tcattcagag ctttactcac tcctttgcac gtctcaatct gagtcttcac 60

002220-ETFE50

ttcattgttt ttgtgattct ctgtctcaat aatggcagca cgcttgcaat ctgcagctgt 120
actttgctgg tgttccttat agggaaagat gaaattgaag tctaagaaag gatggaaatc 180
tattgtacca cttcgtttga aaggaaaatc agcaacccat tttttgttat ttcgcaaagt 240
caattctgct ggctatggac ctggcaaaac accagtttat ctgaatgtgt atgacatgac 300
acccatgaat ggttatgtgt attgggctgg tcttggtatc catcactctg gtgtagaagt 360
tcatgggtga gaatacgcgt ttggagctca tgactacca acaagtgggtg tttttgaggt 420
tgaacctcac caatgccag gttcaagtt caagaagtca atattcatag gaaccacatc 480
tttggattct actcaggtta gggagttcat ggaacgccag tcagcaagat acaacggtga 540
cacatatcac ttaattgtca agaactgtaa ccacttctgc aaagacatct 590

<210> 7967
<211> 410
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090b02d1

<400> 7967

gtgacaagtt ccattctgag tttcctagat tctgacagg gttttaaggt tgtgggtact 60
tgatgttggg aaaaaaggtg tggcctttac tctcattgga gaatgtctga atctgcttgg 120
cactgtcggt gaagttgaac catgaaaaaa ttagctttta taagaggcag taatgtgcct 180
ttgggaatgt gagcatgatt tgcaaatggg gttgctctga atagtttcac aagagctctc 240
agcctctcaa gaaggaaaaa aaaggccttg gttttttttt tttggagaaa gtgagaatga 300
aaaaagggca agggaatttc ttttcaacat ttttttttat tccggaaaaa agtttttttt 360
tttcctttct tctgaagagt ctttgatagt tatggaagat tttatatgct 410

<210> 7968
<211> 566
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220090b03a1

<400> 7968

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ggccaccctt tcttcccttc tcaacttgta cttcatctaa ttcaatacta caacttctga 120
 atcacttagt tgaattgaat tatcttcaaa atgagagaaa tccttcatgt tcaagctggg 180
 caatgtggca accaaattgg aggcaagttt tgggaggtga tgtgtgatga acatgggatt 240
 gatgccactg gaaattacgt aggcaattcc catcttcaac ttgagagggg taacgtgtac 300
 tacaatgaag caagtggagg acgctatgtt cctcgagctg tgcttatgga ccttgaacca 360
 gggaccatgg atagcttgcg ttctggctct tttggaaaaa tattcagacc tgataatttc 420
 gtgttcggcc aaaatggagc tggtacaac tgggctaaag ggcattatac tgaggagct 480
 gagcttattg attctgntct tgatgttggt cgaaaagaag ctgagaactg tgactgcttg 540
 caggggttcc aaatttgtca ctact 566

<210> 7969
 <211> 466
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090b03d1

<400> 7969

gacgagtaca ctgcgccgc cctttttttt tttttttttt ttatcaaaac aaaatccgta 60
 aaaaatacta ctcacccac atctcatatg tacctagcat taactatata aacacatcct 120
 ttcctttcct ttccttacc atcaccatat ggcatatacc aagtgttttg atttgcat 180
 ctcatgacat cactagaaat cattaaatag taataatttt gatcaatctt cacattgcat 240
 ctaatcaaaa ttgttattg tatattaaaa attttgatta atgtaacagt gaaaattgag 300
 tcgaccatga tgacgtggta atctagatta tataataatt tcttcggag aggtttta 360
 gaggtctca tgcagccatg gcttctcgt catcgatctc gttctcgctt tcttcgctgg 420
 cggcgccgctc ttgatactgt tgatactctg ccaccaagtc attcat 466

<210> 7970
 <211> 446
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090b04a1

<400> 7970

agcccttttc attttttttc cctctattaa cttttcattt acaaaccatt tatttaccac 60
acagttccgg gtatattttt ttcttttttt ctttttctct ctttatccac ctcaaaaatc 120
tctatccctc caacccttaa atatcccccg actaccacat ctttcaacaa aacaaacata 180
tcaccaacca cacacactct atctctcaca ccaaacaaaa cgctcactgg atcaattcac 240
acagctatag caactaaaaa tactagcaaa gtttccgcaa accccaaact accttttcct 300
cccttcttta tggatatgac aaagtgatca gatcatgaaa cattaatcaa tccattgaat 360
ctgaacctga taatccgccc gcaccgatac caccattctc caccctagga agggacaaca 420
aataggccaa agcctactaa ttaacc 446

<210> 7971
<211> 481
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220090b04d1
<400> 7971

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cctttttttt tttttttaat gtcttggaat catgcattta tcataacagt tactatacct 120
agagcttaac agtaagagta accttggttg aacgaaaagt gtgaagggtga cagcctccat 180
aaggaagacg aaattcaciaa ttcatatgta taaatcagca aaccttgcta ggaaattaag 240
caciaatttc aggtcaagtc agcagctttc gtgcaatagt aaagtctga tcaacttcct 300
ttctggatgc ttcccaaagt cgatgttcaa tcccgaattt cctcagttca gaaagtcctt 360
gctcagcatc aacggcatca tgtgaggtag gtgaatgccc acttcgacca atccaaaacc 420
gaagacgttc tttggcaatg tctctctttt accatgagcc ttgggtcttc tccaaaaata 480
t 481

<210> 7972
<211> 578
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220090b05a1
<400> 7972

gcttctcctt cttttgggaa aagattaaca ataaaagtgt ggagtactgt tgatagcaaa 60
 gatgtttggg atcttcgaca aggggcaaaa gataaagggg acagtgggtgt tgatgccaaa 120
 gaatgtgttg gacttcaacg ccataacctc catcggtaaa ggtgggtgtta ttgacacagc 180
 caccggcatc ttagggcaag gcgtcagctt agttgggtga gtaattgata ctgccacttc 240
 cttcttaggc cgtaatatct ccatgcaatt gatcagtgt actcagactg atggcagtgg 300
 aaatgggaaa gttggaaaag aagtctatct ggaaaaacat cttccgacct tgccaacgtt 360
 gggagcaagg caggatgcgt tcagtatttt ctttgaatgg gatgctagtt ttggaattcc 420
 aggagcattt tacatcaaaa actttatgac tgatgagttt ttctctgtca gtgttaaact 480
 cgaggacatt ccaaaccatg gaaccattga atctgtttgc atctcatggg tttaacaact 540
 tcaggagtac aaaaagaatc gcattttctt tgcaatga 578

<210> 7973
 <211> 518
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090b05d1
 <400> 7973

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 gtgcagaagt tcaggcaata attacgcata gacatgcata aagtctatgt tattcagaag 120
 tacaacatag ataaggaaac cacaaactct ttttaattag atagagatac tgttggggaat 180
 tcctttgaaa gtcaaccctt cctcacttga acgatggagc aaagtgtatg gcagctgaac 240
 tggcccagtc cggtttctca gacttggatc actgttcctt gcattgattt ttccttcaat 300
 tccagtcagt ttgcttccaa accttttgaa agcttctaata gccttcttat cagtagtcca 360
 atttggagtc tccctctctc caaggatat ctcacagaa gcatgccttg acaatatctc 420
 tatcactgaa agatcaataa ggggtctcaa cttgggtgtg attgttctca gataagcctt 480
 ttgaggattc ttcaccatct catcatactc tggggttc 518

<210> 7974
 <211> 341
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090b06a1

<400> 7974

tccatgttca tatggcactg gaaaactcca caaggaggga actaaggcag aggaaactta 60
 gaggaggagg caaatgtcaa gcctccaacc ccattgacgc ttgctggaga tgcaataaag 120
 actgggccaa tgaccggttc aggctagcca agtgcggaag aggggttcgga agacgggcca 180
 ccggcgggct cgggtgtccc atctatgtcg tcaccgataa ttccgatgac gacatggtga 240
 accctaagcc gggaactatc cgtcacgctg tcacccaaaa agggcccttg tggatcatct 300
 tcggacacag catgatcatc agtttgaggc aagagctgat g 341

<210> 7975

<211> 495

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090b06d1

<400> 7975

cgattaatta tggaaaggta gctaggcatt aatctgcgtt aaaaacagaa tccattaata 60
 gaaaaataat tgtccaactt caactagctc aaacactcga gtctccaaaa acaggagaag 120
 atctacaccc ctgaagcaaa taatcttttc cttttcttaa aaggaagaaa aaagaaaatc 180
 ctgaaaacag agtgcaccta aaatgaaact aagcccaaaa tttatctggg gggatgatga 240
 tactaaacag ggcgccactt taaaataaag attcaacat ttcaagtctt tcgccttggc 300
 ctccgacgcy cagcattaga tgcttctctt ttctggttct ctttctcttt ggttccttca 360
 ttctctccac taccttggtt attggaagct tctgtgcgtt ctggtttctt ctccaccttt 420
 gcaggtttct tgccaccaaa tatgagtctg aagaaaattg acacgaagac aaccagaaca 480
 gctacaagaa ttcca 495

<210> 7976

<211> 289

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090b07a1

<400> 7976

aacaacctaa acaaagggga tgttgccgc aaagaagacg tggaaagggc cctccgcggt 60
 tccgactgcy tattccacct tgcggccttc ggaatgtcag gcaaagagat gctccaattt 120
 ggtcgcattg atgaagtcaa cataaatggg acttgccatg ttatcgatgc ttgcctccac 180
 ctcggcacat aaaggcttgt ctactgtagc acaacaatg ttgtctttgg cggatcaacag 240
 atcatcaacg ggaatgagac attgccttat ttccaattg atcaccatg 289

<210> 7977
 <211> 474
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220090b07d1

<400> 7977

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 cgttatgatt tgtatatatc agaataacaa aatatacata aactgtaatt tttgtttttt 120
 taccggccac aatgataaga ttttatttct atcataattc tatgtgtttt ggaaacacat 180
 tgggcaccaa tacagaataa tcaaaagggg gcttaattta tccctctctc ttttcaagcc 240
 ttctccttag atggaactgt tccatctgtt cctgcaagca ttgcatattt gctcttctca 300
 gtcaaattgg tgcaactcaa tcccaaagtc cctgcaagaa ccctttgaat gtagtttgca 360
 acttcgatcg ctgatttccc tccactgcat gtgagctcct tgggaagctg gttcaagaaa 420
 gtgatctcat atgttggcat aggattcatg aacacaaagt aggggtccaa caac 474

<210> 7978
 <211> 446
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220090b08a1

<400> 7978

accatcaaaa caaaaaacag tactcatcaa aaacaaacag caacgaaaat gttaccgccc 60
 atcaagaacc cagttttgaa ggctacggct acatgaaatc ggcggaact tcaaaatata 120
 actggtaaaa caaacaccta agactctgca aagataaact actgtaaagg aacaagtttt 180
 tttgaaacca cgttgatgat cacatgtgct agcaaaattg ccaaaatgca atcacttctt 240

cttggcgcca gcctttgtga ccttggctcc ggtggggtct ttcttctcaa cactcttgat 300
 gactccaaca gctacggtct gacgcatgtc cctcacagca aaacgaccaa ggggaggata 360
 ctcagagaaa gtttcaacca ccattgggctt ggttgggaacc atcttaacca taccagcatc 420
 accattcttc aaaaatttgg gctcct 446

<210> 7979
 <211> 334
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090b08d1
 <400> 7979

cctaataaga aaacaaataa ttccaattca tatatgaaca tttttgcctc cttatttctt 60
 gaaaatgtgg aattggaatt ccccgaggaa ttccgatctc atttcctttg gcttcaggat 120
 aggccctaata agaaaacaaa taattccaat tcatatatga acatttttgc ctccttattt 180
 cttgaaaatg tggaattgga attccccgag gaattccgat ctcatttcct ttggcttcag 240
 gataggccta ataagaaaac aaataattcc aattcatata tgaacatttt tgcttcctta 300
 tttcttgaaa atgtggaatt ggaattcccc gagg 334

<210> 7980
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090b09a1
 <400> 7980

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 tcggccaaca tattgcttga tacagatttt aatctcatc tttctgacag tggattggca 120
 agctatattc caaatgcaaa ccaggattta aacataatg ctggatctgg atatgaagct 180
 cccgaagtgt gtttgtctgg tcattatact cttaagagtg atgtttatag cttcggagtt 240
 gtcagtgttg aacttcttag tggacggaaa ccgtttgata gctcaaggcc gaggtctgag 300
 caggcgtttg ttccgatgggc aacacctcaa ctccatgata tcgatgcttt ggctaaaatg 360
 gttgatcctg cattggaagg actataccct gtgaagtccc tttctcgatt tgcggatggt 420

attgctctat gcgttcaggc ggagccggaa ttccgaccac ctatg

465

<210> 7981
 <211> 476
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090b09d1
 <400> 7981

cattcaaagt gcagggagct gctatgccta tatccttgaa gccgatactg atactgatac 60
 atagctagct agcctagctg tagatcaaga gaaagaaatt gaaagcatta caacttagtg 120
 caagatttag ataagcctat aattaaaatc aacttattat catatcataa ccaaccttca 180
 aaatgagaat caaacctctt gaacttcaac agcactggca actgggttaa cttccttgag 240
 ttcttctta acttgtttca cttccttggtg ttcttctcc ttttcttaa cttccttaac 300
 tggctcttca atctcgaaag ccgagacggg gaatgtcctg aagagccccg aaggagtctt 360
 gaaagtgatc ttgccagtgg gaggatcatc aacaaagatc tcaactgagtg tgatccaaac 420
 caagagcttc ttgggttttca caccagtgtg ctttttgatc ttaccaacct caacat 476

<210> 7982
 <211> 269
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090b10a1
 <400> 7982

gggacctagg aggtcagcct ggtcttcgct caatctggga gaaatattat gaagaggcac 60
 atgctgtaat atttgttggt gatgcttctt gtccgtcacg ctttgaagat gcgaagtcag 120
 cactggaaaa ggtgcttctg catgaggatc tacaaggagc ccctcttttg atattagcta 180
 acaagcagga tattcctgaa gcagtatcag ctgatgagct tgctcgatat ttggatttaa 240
 tgaagctgga tgaaagagtt tccatgttt 269

<210> 7983
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090b10d1

<400> 7983

gaggcagcaa ccacgcgtct gtaaattgct attcaagcat tgaacattaa agtagaaatt 60
 tcattgtttt atctaacttc atttaccata ccagttcccc taataaaaca tgaacacata 120
 aactgaaatt aatgcctact tttgtggcga accaatatac caacaagggtg cttaatatatt 180
 gttttttctg ctgctatgct catcaagcca agatataata tcaccaagca cgtgaaatat 240
 agtttcatca ggttcacctt caagtagagt atggaaagca tccttataga ggcagagttt 300
 cttgtccttc acttttagctt tctcatatac agccttacta gctgatggat cagtaattat 360
 atcagcctct ccatgcatga tcaacaatgg cagagaaacc tagcaattga aattcttcag 420
 tggatttcat tgacacacgg aaaattccac cagaaacatg tgcaatagct caagaaagtg 480
 ttaccttaaa ataacatgtg caatag 506

<210> 7984

<211> 476

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090b11a1

<400> 7984

attccttcac cacctcagcc gagcgggaaa ttgtaaggga tgtgaaagaa aagcttttctt 60
 acattgcctt tgactacgag caagaactgg agacagccag gaccagctcg tctgtggaga 120
 agagctatga gttgcctgat gggcagggtca tcaccattgg cgatgagcgt ttcagatgtc 180
 cagaggttct gttccaacca tccatgattg gaatggaagc ttcaggcatt cagagacaa 240
 catacaactc cataatgaag tgcgatgttg atatcaggaa ggacctctat ggtaacattg 300
 ttcttttcagg aggaacaacc atgttccttg gtattgctga cagaatgagc aaggaaattt 360
 cggcattggc acccagcagc atgaagatca aggttgtagc accacctgag aagaaatata 420
 gtgtcttgat cggtgggttct atcttggcat ctcttagcac cttccagcag atgtgg 476

<210> 7985

<211> 480

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090b11d1

<400> 7985

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt   60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  120
tttttttttt tttttttttt taaaaaacag atatccacaa aaaacaaaaa aaaaaaaaag  180
ggggaccaaa agaaagaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaagc cccccaaaac  240
caaaggggga aaaaaaaaaa aaaaaaaacc ccgggggggg attttataaa caaaaccaa   300
aaaaaaaaac cccacacccc ccaaattttt ttaatgaaaa aaagacacta ttaccccccc  360
acccttttga aaaggggcta aaatattaca aaaaaaaatc cccccccaaa aaagggggga  420
aaaaaaaaaa tacccccata agggggggga aaaaaaaat tttcccccca cggagttttt  480

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<210> 7986

<211> 507

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220090b12a1

<400> 7986

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aagttataaa atttaactca acagaaccac taaacaggat tgagttctgg taacaggtaa   60
gattcttctc ctaacaagac gaaacgtatt ttacgcaaca cataaaaata aataagaaaa  120
ttgttttagt gatctatgtc gccattatta tccatagcta gctagctagc taaagggaat  180
ttatgtgggc gttgactgtg ccaacaggga tcatagggtg aggggtctgc tcatccaatc  240
attcctttgt tatctgcact agtgagtgtc gtcttctgat aaaacgacgt cgtcgtcaca  300
cagccttggt tagaagaaga agaagaagaa ggtatgggag acatattcta cggcaacgat  360
gaccaccgag aaatgaatga ttgtatgtat aaggaggatg tgatagaaag catgagaaa  420
caaagggaat tcaaagaact caagcgaga caaaacaaca acaactactg ctgctgctac  480
ttgtacttnc ttcgatgctn tgatgac                                     507

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<210> 7987

<211> 421

<212> DNA

002200"ET"ES60

<213> Glycine max

<223> Clone ID: jC-gmf102220090b12d1

<400> 7987

cccccccca aggaacagga caatttaata ttttattatt aacccccaaa accggctttt 60
ttttgttcaa gacgggaaaa accccttaaa ttttgggctt tgcaccaacc ggaaaacggg 120
gggaggggaat aaaaaaaaaac atggaacacc cctggccggt tgggggcccc acccaacagg 180
ggcccaccct ttgtcccaat caagggggaa aagggggggg ggcccaatcc ctcttaaaaa 240
aggcttaact gttcttttcc ttccaagggg gaaaaacctg cgggttttgc tcagggttc 300
caaaaaaggg ggggtctgc aatcagggaa aaaaccccg tggggcccat gggggaagg 360
ggcctttggc ccaaaaaaaaa acccttcccg ggtttctggg gggcccccc aaccctaaaa 420
a 421

<210> 7988

<211> 582

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090c01a1

<400> 7988

cttgtttctt tcgtttcttt gttgctcttt ctctagctag ctaagtccgt tcgtgatcga 60
aaagagaaaa agatcatgga agaaagtcta gtaaaaaaac atgaagaaga tagagtagta 120
agatggggtg tttatagtga agaactgaga aggatctgtg aaatagcagg gcctatggtg 180
gcagtgggtt ctcccaata tttgctgcaa gttgcgtcaa ccatgatagt tggtcattta 240
ggtgaactct atctatgtag cgcagactta gccatttccc tatcaggggt cactgggttc 300
agtcttcata tgggaatggc tagtggactg gaaacaattt gtggacaggc ttatggagct 360
caacaatatc aaagaattgg aatgcaaaca tacactgcta tattctctct catattggtt 420
tctattcccg tgtgtatcct ttggatcaac atggaaagca tactagttct cataggccag 480
gaccctctaa ttctgcatga agcatggaag ttcacaattt ggctagtttc agcacttttt 540
gcatatgcaa ttcttcagcc ggtagttcga tatttccaag tc 582

<210> 7989

<211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220090c01d1

<400> 7989

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gggacagcta aaaattgtgt gtttaaacta ggtgacaggg taaaatatag ttcattctct 60
gggggcttgt atcagcttca gacaatttct tcaaagggtc cagctaattg aagtcggggg 120
aaggttgtct tactttttga tgataatccc ttgtcaaaga ttggcgtaag atttgataaa 180
cccatacctg atggagttga tcttggaggt ttgtgtgagg gtggtcaagg atttttctgc 240
aatgtcaccg atcttcgatt ggaaaacagt ggcattgaag aacttgacag attacttatt 300
aatacattgt ttgaggttgt ggtagtgag agcagaaatg cacctttcat tttgttcatg 360
aaagatgcag agaagtctat agtaggaaat ggagatccat tttcatttaa aag 413
  
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<210> 7990
 <211> 599
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220090c02a1

<400> 7990

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tttcattcca aaatcttcat attcatcaaa ctcatcaaaa tgaatctgta ccactcctcc 60
accaccacca ccaccaccac catcttcacc gtcattatcc tcttccttgc aatattattc 120
actctcacac ccacaaggc caacggtgcc acgtgtcacc ctgaggaaga agcgggcctg 180
ttgggcttca aatccggtat ccgatccgac ccgttcggcc tgctcagtta ctggatatcg 240
ggtacggact gctgcacatg gaccggagta gaatgccact ataacagcac ccgggtccaa 300
agatcattct taacgggtca aaaacccgaa accatcttat cgggtaccat cttaccacc 360
ctctcaaaac tcaaactact cgatggactc tacctcataa acctcatcaa catttcgggt 420
cccttcccaa attttctttt ccaacttcca aatctccaat ttatctatct agaaaacatc 480
aatctctcgg gtcgaatacc cgataacatc ggtaacctta cccgactaga tgtactcagt 540
ttaactggta accggctcat cngaccgta ccgagctcaa taaccaggt gactcagct 599
  
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<210> 7991
 <211> 483
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090c02d1

<400> 7991

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 cgaatgcttt agtggttcgga tcctcattcc aaagagttgc ttctgtttc gtccaaggcc 180
 tgatcgagag gctcaatctg attcagccca tcgggcctgc tggcccatg atgccctcca 240
 tgatgaacat catggacgtg gcctcagacg aaatggagga agcattcagg ttggtttatg 300
 aactgtgtcc gcacatccag ttcggacact atttggctaa ttccacaata ttggaagcct 360
 ttgaggggtga gagttttgtc catgtcgtgg acctaggcat gagcctgggt ctacgacacg 420
 gacaccaatg gagaggtctg atccagaatc ttgccggtcg tgtaagcggc gaacgtgttc 480
 gtc 483

<210> 7992
 <211> 530
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090c03a1

<400> 7992

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 ttgaccactt ggcttttcgag aggaacaagg cgcagttcga tgttgacgag atgaagatcg 120
 tttgggcggg ttctcgtcaa gactttgagc tttccgatcg gatttctcgc cttgttgcca 180
 gcgatccggc cttcagaaag gatgacagaa ccacgcttgg taggaaggag ttgtttaaaa 240
 acaccttgag aaaagcagct tatgcatgga aaaggatcaa cgagctccgt cttaatgaac 300
 aggaagctta taagctcaga tcctttgtgg atcaacctgc ttttacggat cttcattggg 360
 gaatgtttgt gcctgctatc caaggacaag gactgacga acagcagcag aagtgggtgc 420
 ctctagctta taggatgcaa ataatcggtt gctatgccca aactgaactt ggtcatgggt 480
 ccaatgttca agggctagaa acaactgcaa catttgatcc caaaacagac 530

<400>	7993
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<210>	7994
<211>	580
<212>	DNA
<213>	Glycine max

<400> 7994

3581

ttgattccac agcgctttgt ttggccttat gggggaacaa cgggtgttct aaccggttct 480
 ttcaccagat ggtcgaacca tatagctatg tctccgatgg agggatgccc ttgctgtgtt 540
 caagttgttt gcaacttaat gccnggtttt atcagttcca 580

<210> 7995
 <211> 538
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090c04d1

<400> 7995

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 agctcagaaa agcagtgcaa atagaacaaa cgagttcctt ccaatgccaa ccacagctat 180
 ttccttcata taagccggcc aatatatccc aactagccta acaagaatct gaacacatcg 240
 cttaaagaaa taatcccttc cacacgcttg ctgccagcct ccacagccac aagtctccta 300
 accccaggat tagccaaccg ctccatcact ttgtaaagcg aatcagatct caaacacatg 360
 tgacatctgt gaccattgta aagcccataa ggagaagttg catcttgtcc caaaagcaat 420
 gcctggtgaa tactaatttc atcgagagat atcctagcat aagctntatc tttagccaat 480
 gcagtaatat cacttcttgg ataaatgtca agtaacgaat cattattatc cacaatcg 538

<210> 7996
 <211> 566
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090c05a1

<400> 7996

aacaccatca tctacaacgc ctcgatccac acagttctac tctacgtctt aaaccctctc 60
 tctctctctc tctcgatcta tcatggcttt gcccaatcag caaacctggg attacccatg 120
 tttcaaactc gtcacgtcgc gtgacggcgg tacaggaaag acaacgttcg tgaaaaggca 180
 tcttaccggt gaattcgaga aaaaatacga accgaccatt ggagtggagg ttcacccatt 240
 ggatttcttc acaaactgcg gaaagattcg cttctactgt tgggatactg ctggacaaga 300

gaagtttggt ggcctcagag atggatatta tatccatggg caatgtgcga ttataatggt 360
 tgatgttact gcccgctctaa catacaaaaa tgccctacc tggcaccggg atctttgccg 420
 ggtctgtgaa aacatcccaa ttggtctttg tggtaacaag gttgatgtca agaacaggca 480
 agtgaaggca tagcatgtta ccttcccagg aagaggaatt gcagtattat gagatttagc 540
 gaaagcaact acatttcgag agcctt 566

<210> 7997
 <211> 587
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090c05d1

<400> 7997

aaaaaaaaac agaggaatac attaacgtca agcatcggtg tcagaatccg ttttaagcac 60
 aactcaaata tgaagctaga taaatctcca gacaccacat gacgttataa agtgaccgtt 120
 tacaagaaaa caaaggccaa aatacataaa ccattcacgc caatggaatg tatacgaata 180
 tgtacgtaat gttttcgaca ttgttactg aatattaaat tgacttcacc aaactagtcg 240
 ttttaaatag gaggaataaa gccaatatca tttcttggtg gagggacaaa ctcgagaagc 300
 aaaatagcac ttggcacaaa cagccttggt tgctctttcc cccgtgtctc tctgttcaag 360
 agagccaaat cacacaaaca cagcactac agcccttggc cacaaggata tgtcaaacta 420
 ttgggagaga tttttaatta aagcaaatg attaaatttc tgataactca atccgcatcc 480
 aaaaaatgtc aacaatacac ccncccaaaa tacatatcat agcatacgca gtaacacgac 540
 tcagaanaag cacaatttta ctcaaaagat catcatcatc gtcagga 587

<210> 7998
 <211> 378
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090c06a1

<400> 7998

cccaaagatc ttttctcttt cgatatttta tctctctctc ttttctcat ggctgagaac 60

DEPT 10

<400> 7999

ggaaattaaa	caaattgggtt	acatttttaa	aacattcaca	ttaggggatc	aattcccgct	60
ttttttttacc	accagcaaaa	ttccccaaca	ttttcaaata	cgacaattat	caaataaaaa	120
ttttaaaaaa	ccccgagaaa	aaaaaaaaagg	gatttcactt	cgaatcccc	ttgaaaaaaaa	180
accctaaaact	cttttttttt	ttttaattaa	cccacattaa	agctttaacg	ggaacccaaa	240
aaccaaactt	aaaaccaagg	gaacaacacc	accaccggac	cttcgcgcgt	tacgtttaac	300
ggggtcgtta	ctattattgg	ggggcacatt	ggcagggtta	tcggggagaat	cagcagggggc	360
cttaaaatca	tccgcggggg	cattaaccgc	cttttttttc	tttttcccct	tttttgccgg	420
ggcaag						426

<210>	8000
<211>	402
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<223>      Clone ID: jC-gmf102220090c07a1
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<400> 8000

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cgcaccctga	gctctccgat	tggtacaatt	cgctggcgga	tctgtaccag	aagaagctct	120
ggcaccagct	cactctcaag	ctcgagcagt	ttgtggctct	cgccgtcttc	caggctgggtg	180

atgctttaat acaattatat cacaatttca tcacagactt tgagacgaaa atcaaccttc 240
 tcaagcttgc acatttttgc gatatagttt ctcggcagta ttctgaaaaa gaagctgctg 300
 ttggttatct tggagggggtc attcagaaaac ttcaagacac tagggagcag cgcatagaag 360
 aacctattct ttacattaag atgcaaatac cantattcaa gc 402

<210> 8001
 <211> 557
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220090c07d1

<400> 8001
 tagtcggcgg ccgccctttt tttttttttt tattgatatt tgatattaca tcaagtcttt 60
 aataatttta agatttagat gtctgccctc cacattacac aattttaaga tttgtcgtgt 120
 acatcttcat tttcatttaa aatgaaaaat ttaagaact ctagttccat ttagccattc 180
 attatctaga gaaaattatc ttcacttgta gaggcagaga gcccgccatt ttttcacctg 240
 atatgctgcc atccccccaa atttaactcg gaatttggac ttgcagagat tccaattata 300
 accgtgctac gtatgagttt gcttgggtta catatctaac ccagcgataa ggattatgtg 360
 cttttgattt ctttgcattt tgcaaatac tcacctgaag ccttgaagca ttgtacatag 420
 gtacggtgaa agtcatgctg acaggccctg cttctttcat gatatttcca tgtaactcct 480
 gtgaaaatgt cagctttgct cgtaaagtat gttcagatcc accaacaacc tttntcagac 540
 cccattccag tcttttta 557

<210> 8002
 <211> 323
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220090c08a1

<400> 8002
 gggggaaaaa atttcccccc ccaaaggggg gggaaaaacc ccggggaaaa gaaaaaaagg 60
 gggcagggcg ggcccccccc cccctgtggc ccccaaccaa aaggaaaacc ccccgccctt 120

tcggggggcca accccccaaa aaaaaacccc gggggggggg gggggggccc ccccttgga 180
 tgaacggggg cccccccg ggaaaaaatc ccgggccccg gggaaagggc ccccgccctt 240
 tttgagggaa ccccccgga agccccgggg gggcccaaac ccccgttccc caggggaaaa 300
 aagggggccc tttggcccc ggg 323

<210> 8003
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090c08d1
 <400> 8003

cggcggccgc cctttttttt tttttttttt tttttttttt tttagaactt ttatgaagag 60
 ggctttcttg tttctccata agcacttcat taagcatttg taaccataac tcttcaaagg 120
 gcttgtagaa actctgctga aaccaatcca aaatttctga aaataattcc cttggattct 180
 ccttacacac cattctgagc atagcagagc tatcaatcag cctgctcttt aacttgctca 240
 aaagatttcc cacccttttt tgaccaaagt cttctctctt cataatactt tcaggggggg 300
 ctgacatgta ttttctaaca gatttttaac atggacacac ctggccttta agcaaagcat 360
 aggcaaacac ttgcacctga tgttcgccat tgctaattgg caatgaatgc tttcgaagct 420
 cccaacagga acgcccgaag gttgggatta c 451

<210> 8004
 <211> 301
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090c09a1
 <400> 8004

gtgctgaggt agttaaccaa gtcataaaag aggttggagg gaagattact cggcaaccag 60
 ggccaattcc tggccttaat acaaaaacca cttcgttttt agatccagat ggatggaaaa 120
 ctgtcttggt tgacaacggt gatttcttgg aagaactgaa gtgaagagca agctttatat 180
 gaaataagta gtcctgctgc ttttgtatga ataagttgtc tcgcatttta tcattgtgcg 240
 ttttgtatca gtaccagtca tcaacttggt ttcttgcttt tatgggttct tttgttgact 300

t

301

<210> 8005
 <211> 470
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090c09d1

<400> 8005

ctaaaaaaaa tctaaagctt cgctaacttg tacatttccc aacgtactca cgggaaagct 60
 tacacaggct gacatgcaca cagaaccaca catgcaatag acaaagaaaa acagagaaaa 120
 taattaaaaa gatgctatgg caatattgca tgactttgaa tacaaggcag atcagaaaaat 180
 tatgtagttt gaacaagtat accaatattg gccctcatag agtcatagga caattatggt 240
 gtccttggcc tttgggtata caacaacttg atgaaagaga aacgaaagac cattccttca 300
 ctacatcgat cttctcaact tgtttttatt catgcatgag ttatgcaatt ccataataat 360
 taattatata ttaactaact atctgcacac ttgaatccat ctggtgggggt cttgcccagt 420
 caatgagaag ctgaagagca atggggatga tgatatgatg taagaatctt 470

<210> 8006
 <211> 333
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090c10a1

<400> 8006

cccaattctt cccctccac ccaccagca tatctctcta ttctatttta ttagcacccc 60
 tcacattacc ttgtgtcacc aactactttg actcctttac cataaccatta caataattat 120
 caaacctaac cagtaaaaat ggtgaccgtg gaggaaatcc gcaacgctca gcgttcccat 180
 ggaccgcca ccatcttggc cttcggcacc gccacgccgt ccaactgcgt ctcccaagcc 240
 gattaccctg actactactt ccgcattacc aacagcgaac acatgactga tctcaaagaa 300
 aagttcaagc ccatgtgtga aaagtccatg ata 333

<210> 8007
 <211> 433
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220090c11a1

<400> 8007

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gaagatcctt gtgtcacata gagctagtta aaatgtcaga gggaaatgca gggaaaggaa 120

agagaatcgc catcattggc gtctcaacct tattgttggt ggctatgggt gtggcgggtca 180

caattgggggt caatctcaat gagaatgggt ccaacaatga tatagaggac aacaagaaaa 240

atcatgttgc ttcttccata aaagccgtcc aaaccctttg tcatcccaca nattatgaga 300

aagaatgcga ggaaagcctt atagctgggg ctggaaatac cacagatccc aaagaactcg 360

ttcaaatttt cttcaacatc accattacaa aaattgggtga taactcaagg aaactatatt 420

ttgcatgaga ttg 433

<210> 8008

<211> 400

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090c11d1

<400> 8008

caggttgaac attgtagtta gccttcatag ctagattgca atcaaattgtg gacactaaca 60

aggaaatgta agagcacaaa gaatctggct ccagaaaatt gtggtcacct aggatagttg 120

tctctatgac ttcgaaattc taactaacca actccccttt acacaaactt tcatcatcat 180

cattcatcta aatccaccat tggatttgac aaagtgagga ctaatgtagc tgttcacttt 240

cccagcttag cttagagaca actctttcat gttgtgggaa atattcctcc atctctttga 300

caagctcttt tggggttggg gcagaaacaa ttatatggcg agcagtgggg ctgatgaagc 360

cttccttccc cgctttgtca ataaaagaca aaaaggtttt 400

<210> 8009

<211> 557

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090c12a1

<400> 8009

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tcgtcctgct cctccggcac atgcttctcc ccctgaatac tttgtcctcc aggggaacac 180
aacttataaa gacgatctat atttaaggaa gaggacaggg atgcgtcggg ggctttgttg 240
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acaaaaggca cctccaccta ttgaagctcc agccttatct ttagatgagc tgaaggagaa 420
gacagacaac tttggttcaa aggcattaat aggtgaaaga tcgtatggaa ggggtgtatta 480
tgcaacctta aacaatggaa aagcagtggc tgtgaaaaag cttgatgttt catctgaacc 540
ttgatcaaat aatgagt 557
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<210> 8010

<211> 369

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090c12d1

<400> 8010

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aaacccttc ccgggggggg acatttaaac cccgaaaaat cccgggggga aaagggccca 180
ttttgaaaaa aaaccttggt ttttttaacc ccgggtaaaa tttagggggc ccgttttggg 240
gaaaaaatc cttggcccc aaacctttaa attttgtccc aaaaaaattt cccgggggct 300
aaaggggggg ggtccccccc cccaaggag gttttttttt tccccccaa accctggggg 360
gaaattggg 369
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<210> 8011

<211> 566

<212> DNA

<213> Glycine max

<223> unsure at all n locations

D E F I N I T I O N

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ggcgaacata	gacatcgaag	ggatcttgaa	gcagcagcct	gatgatgggc	gcgttccgaa	180
gacgaaaata	gtgtgtactt	tgggccccgc	ttctcgatcc	gtggaaatga	ctgagaagct	240
tcttagggct	gggatgaacg	ttgctcgttt	caattttctct	catggcaccc	acgactatca	300
tcaggaaacc	ctcaacaatc	tcaagactgc	tatgcacaac	actggtatac	tctgtgccgt	360
catgcttgac	actaagggac	ctgagattcg	gactgggtttt	ctgaaagatg	gaaaacctat	420
tcaacttaag	gaaggacaag	aatcaccat	aactactgat	tatgacatta	aggggggatca	480
ggagatgata	tccatgagtt	acaagaagct	gcctgtccac	ttgaagcctg	naaacaccat	540
attgtgctct	gatgggacga	ttactc				566

<400> 8012

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gaaaaatatt	aaagttaaag	ttcctcctgg	tgttagctca	ggcagtattc	taagagttac	300
aggggagggg	gatgctggac	caagaggggg	tcctccagga	gatctttacg	tatatcttga	360
tgtgcaagag	atacctggaa	ttcanagaga	tgacattaat	ctcgtctcaa	tgttatcaat	420
cagttatcta	gatgctatac	cgggggctgt	tgtgaaggta	aaga		464

<211> 502

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090d02a1

<400> 8013

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tttggttcgc aagagattaa atctctgtgc tttgttggtg cccaaaatag gtattattag   180
gcgccaaatc ccaaaaatag gtggtgcgat gaatgccttg ggtggtgcaa cactcttttg   240
taaaatcact cgtgcaccca acatcttcat gattcgtgta catagggact cgttaggttag   300
gtttgatctt attgatagtt tcaatacaaa cttaggcact catatgggac accttagggt   360
cgtcatatgc attggttagga ataatcatca tgaaaattct gaaccaggca tgcactattg   420
ctatactctt cttaatgctt taaactgtga tcaatgggct cccatgaacc ctaagagaat   480
tacggtcatt cctgagtggc cc                                         502

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<210> 8014
 <211> 295
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090d02d1

<400> 8014

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cgttgcgaaa cggcgattca agattatcgt gagccagaag atggtagcgg aagcggaaat   180
tatctgtcag cagaacattc cgatgttgga cgtgaagtat catatttgcg tggctcanga   240
acacaacgtg aaggttgagg tttcacccaa atcaccttca cctcctgttc cgatc       295

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<210> 8015
 <211> 557
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090d03a1

<400> 8015

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 cactttctga gtacaataca acactgccat ggctgcctca gtctccacta ttggagctgt 180
 caacagagct ccactgagct tgaacagctc tgaagctgga gattcgggtc ccagttcagc 240
 cttctttggc acaagcttga agaaggttac tgcctcaagg gtccctaacg tcaagatttc 300
 ttctggaagt ttcaaaatcg ttgcggcgga gaaagagatt gatgagcaac aacagacaaa 360
 caaggacaga tggaaaggtc ttgcctatga tatttcagat gaccagcaag acatcacaag 420
 aggaaagggt atggctgatt ccctcttcca agctccacag gagactggaa ctactatgc 480
 agtcatgagc tcttttgagt accttagcac tggacttaaa cagtataact tgggataaca 540
 acatggacgg tttttac 557

<210> 8016

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090d03d1

<400> 8016

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 attataaagg ataacaatcc aatatgaaca agataaatta tttgattata tcaagtcata 180
 gcttctcttc aagtggagaa tgcttaggtt ctcagggtgt gtataagcag gttccatcat 240
 cacttcttgc agttgggtcg aagtttgagg catttggtac agtacaacct tcaggaacgg 300
 gaatttttac ttgctgggct gctttgcat agaaagttcc tcttttgatg gcatcctgat 360
 tagcatcacc aagagcagcc tcgttcaagt acttgtctgc cagttgtact ctcttcacat 420
 tctcttgttc ttggacaagc atgttaccat actccaagag ctt 463

<210> 8017

<211> 530

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090d04a1

<400> 8017

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 tcctctctgc accacttgaa tgaatgggca attgcggtac cagagaggaa tctgctgtgg 180
 tttccaacgc tcaagttggt cagcagcttc accatgcgac gtcggtgggc gcgagtgcga 240
 ggagccagaa tgcaggtagc gagaagaagc acggtcacgg tcacggtcac aggcacaatc 300
 tgagcgagtgc cgcttcggat ctgagcgagt cctgttccac accgcacggg aacaatagca 360
 acaacacgct gctctacacg cagctgatcg ccttcacgct ctacgagttg gagaccataa 420
 cgaagagctt tcgcggcgac tatatcctcg gtgagggatg cttcggcacc gtttaciaag 480
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<210> 8018

<211> 479

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090d04d1

<400> 8018

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 agattgtctt atcttaccct cattttacct aataatctca aataaaatac atcattaggt 180
 acttgcggtg tcgggtcgtc ttactcttgc actgctgatg ttgtgaggag cccgttatat 240
 tagttctgat gccgcgatga ttacaagtac acagattttc acacactaat tcccaccag 300
 atgaacagaa gacaaaaaat tgatacaaaa atgatccacc ggggcttctt gtcaccatat 360
 tatcatatca tgtacaaaga aacaaatata aggatgcacc cacattttta caacaaacac 420
 cattttcttg agataaagca caccagacat ggattcatgg catgcgatta tcactctgac 479

<210> 8019

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090d05a1

<400> 8019

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 gctgaggcta cacaatctaa tgctgagtta ttggagtggc ctaagaaaga taagcgccgc 120
 ttcttgcatt ttgtgtatcg tgttggtgat cttgatcgca ccattaagtt ttatactgaa 180
 tgttttggga tgaagctttt gaggaaaaga gatattccag aagagaaata tgccaatgct 240
 tttcttggat ttggccctga acaatcccat tttgttgtgg aattaacata taattatggg 300
 gtgacctcat atgatattgg aactggcttt ggacattttg ctatcgcaac tccagatgtt 360
 taaaaattgg ttgaagacat ccgggctaaa ggtggaaata tcaccaggga gccgggtcca 420
 gttaagggtg ggaagtctgc tattgccttc gtgaaggatc ctgatgggta tgcttttgag 480
 ctcacaaag atc 493

<210> 8020

<211> 412

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090d05d1

<400> 8020

accaaata ttgaagtact gttggatata actgtagact gtctagaatc tcaaccaaac 60
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 atcacttatt catataatag cattagtact atgaaaagcc agaactcttt actccagctc 180
 cttcagaaaa tcttgattgt caacaaaaac agttttccat ccatcaggat ctaagaaaga 240
 agtgatcttt gtgttaaggc caggaactgg tcttggttgc cgagtaatct tccctccaag 300
 ctcttgtgtg actatgttga caacctcagc actcttgtat acatcatcag taccaatagc 360
 aacctgtgca taagcatttc ccttggtgta ttcagtgaca ccataagtat at 412

<210> 8021

<211> 469

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090d06a1

<400> 8021

cttgtaccat tgggtgtgatt cgaattcaca gggatactgc aactcggagg acgaaatcag 60
ctagcattgg gacaactgca gagattcgac aatttgggcg tctgggggat ggttctctga 120
atgtggttac ccgtggacaa caacgatttc gcctaagacg gtcctggact gatgtggaag 180
gagtgcctta tggagagatt caagttattg aggaagatct gccactcaga attccaaggg 240
atgcttttgg caaatcagca ccattgagta atatgccctg tagccaaggt gtctcacata 300
atgtgtctcc aaagtattcc catgttaaca tgcaaaggtc aaaaaatgag gaaaatgatt 360
cagaaccaa ttcagaagag agttttgaga gtgagctctc actgatggga aggaaaatcc 420
atctattcag ttgtggctcc aagtatgtgc atgatactat ggatgaatc 469

<210> 8022

<211> 446

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090d07a1

<400> 8022

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aattatcgcc acctcctctt tcttcaaatt tcaatctcag aggatgggtg gtgaggaatt 120
gtgtttgatg gagaactcag ggaaagggaa gaggctgtgg aagaaggtga agtaccagct 180
ggtggagtac cactccttgc ccggttattt gagagacaac gagtacattc tcggtcacta 240
tcgatccgaa tggcccatca ggcaggtttt gttgagcgca ttcaccatcc acaacgaaac 300
tctcaacggt tggacgcatt tgatcgggtt cttcatattt ctggcattga ccatatacac 360
tgccatgaat cttaattcgc tacagcagtt tcctgacatg ctcaagaagg ccgacctgca 420
caaattacaa tcagaaatct tgacgt 446

<210> 8023

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090d07d1

<400> 8023

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 caattcatat gtataaatca gcaaacccttg caaggaaatt aagcacaat ttcaggtcaa 180
 gtcagcagct ttcgtgcaat agtaaagtcc tgatcaactt cctttctgga tgcttcccaa 240
 agtcgatggt caatcccaa tttcctcagt tcagaaagtc cctgctcagc atcaacggca 300
 tcatgtgagg taggtgaatg cccactccga ccaatccaaa accgaagacg ttctttggca 360
 atgtcctact ctataccatg agccttggct cttctgcaaa atatgtcagc caagccttct 420
 tgaaaagaac atcctcagat tcctctggac tcaattcaaa tgcttgcata aacctagggt 480
 cccaggtga tttaatatc 499

<210> 8024
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090d08a1
 <400> 8024

ataaatagtt gaatccaaac acttttaciaa ggggttttgt tgaagcaact ttggtataag 60
 cttcatatgt gtacagaaaa aatctgtata taaattatac aaacatcaat tagatttaag 120
 agtcaacctg aaggggcaca gctactggta attctgctaa agagcagctt ttatcatata 180
 aagatatgaa cataaaagaa ctatcagcat ttccgaagag aaaatgagga gctatgcctt 240
 taaagcttta cccgccaaaa aaaaaggcaa aatggaactc aaaatttcat tttatttaat 300
 tttttggttt acaaacaatt tcaaggaccc attagtattc tcctatggt ctgagggcaa 360
 ggataagcag aatggtttaa agatggacca tcaattggat tt 402

<210> 8025
 <211> 490
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090d08d1
 <400> 8025

actagtcggc ggccgccctt tttttttttt tttttttttt tttttttttt ttttttttta 60

aaaggggcaa aacaaaagtc ataaagtagc attaacaaac aaaacccaca gcaagcaaat 120
 tagaaagaaa gaaaatccga aaaaatttga cttgaggcca ccacaccttg caagatagac 180
 atatataaca caccgcatgg catatacaaa gggttttctg atgcagccat gggtttagtac 240
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 accaaggcat tcaagttgct ctcagcctaa gtaaaactcca tctcatccat tcccttgcca 360
 gtgtaccaat gcaagaaggc ctttcttttg aacatgaccg tgaactgctc ggagacgcgg 420
 tgaaacatct gctgaatgga ggtggaatcc cccatgaagg gggaggacat ggacaaaccc 480
 gtgggaggga 490

<210> 8026
 <211> 489
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090d09a1

<400> 8026

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 acagaatacc ctatcattgg catgctacca caattactct tcaatttatg gcgtgccccat 180
 gattattcaa ctcaggtggt gcaacgacat ggtggcactg gtgagttcat tggaccttgg 240
 ttaccaaca tggactatth ggtcacttgc gaccccatca acgtccacca catgctgagc 300
 aagaatttcc acaactacgt caagggaccc gagtttcgtc acatttttca ggccttcgga 360
 gacgggattt tcgccgtga ttctgaagca tggaagtaca gcagggatct cttccattct 420
 ctcttaaaca gaaaagcttc gaggtttttg tagcgaanac cattcacaac aaggtgcata 480
 atggtcttc 489

<210> 8027
 <211> 480
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220090d09d1
 <400> 8027

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 attttgccac aatcaaacac acaagtgaga atgctttaac agtttgagac ttgggaaagt 120
 ccaaataaac taccaagtaa gaatacaatt atataacgga aattacagcc tgggcatttg 180
 ccttcaacta cacaataact tggactttta aaatatttaa tatcattctt ttgtgacagc 240
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 gcctgtccct gccattgcaa tgtttacact aaacaggttc caattttttg ggggtgattac 360
 agtgctgtaa cgagaccaga taattccagt agctgtgacc gctatttgct gaggatagga 420
 aagtttctcg ggtggttttg agaaatcagc aatgttggca atgctgatgc cccaattaaa 480

<210> 8028
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090d10a1

<400> 8028
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 atggcatcca gcccgacggc atgatgcctt ctgactccac cttcgggtgta gccacgacg 180
 ccttcaacac cttcttcagc gaaaccggat ctggcaagca cgtcccccggt gctgtcttcg 240
 tcgacctga acccaccgtc atcgacgagg tccgctgcgg cacctaccgt caactcttcc 300
 acccgaaca actcatctcc ggcaaggaag acgccgncaa caacttcgcc cgcgccact 360
 acaccgttgg caaagagatc gtagatctgt gcttggatcg cgtncgcaag ctcgccgaca 420
 actgcaccgg cctacaag 438

<210> 8029
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090d10d1
 <400> 8029

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 aaaaaacagg tttggtttcc taaccgggac cggaattggc caaggaatct gcaaaagctt 120
 acccatttcc ttggtctttt aaaaagtaaa cccacgaaa acctcccaag agcaaaagtt 180
 tgccaaaacc atccctttgg attggcagga accatccttt tagcccgggc ccaagcataa 240
 agggccccag caatttgggc acctgtgccc caaaaaaacc cccaccttgt gaccacatt 300
 ggcccaaaga caaatgacc tggacccttg aaaagggacc tgacccttat ggcagggaaa 360
 aaagcgccac aaaacagggg gaacctt 387

<210> 8030
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090d11a1
 <400> 8030

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 aaacacaaa actctctctc tccgacaaca agtccttacc ctctttgcaa ctacccttcc 180
 ggaccacaga tatctctgcc gccgctcctt ccgtttgccc cgattacgac tactatctcc 240
 gtcttcctca actcagaaag ctttggaaact ccacttgatt tctaatttg gacaaccgaa 300
 ccggtcttaa acccattttg gcaagctttt gaaatcacgg tccggtttct ttccattgat 360
 ctctccgatc ccagacctta ctccaaccac agagaatgga ctgcgaggat agagtctctc 420
 atcatgcatc aaattgaaat ca 442

<210> 8031
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090d11d1
 <400> 8031

agactaattc aaaatattgg acccatataa tcacaaaata cgatgggaaa gcttggtatg 60
 attcctagtt attacaacaa gatggcaacc atcaatctta atcgagcttc aattttgcaa 120

aatatgactt actattgcta acttaccacc accctctgaa ctaacttcca tactta 176

<210> 8034
 <211> 538
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090e01a1

<400> 8034

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 gagtttaaga tatcatgggc aatgaaaagg tatcacatca acattgtcat gattggacat 120
 gtctactttg ggaatgtaac taccactgtg aacttgatct acaagcttgg aggtactgac 180
 aagcgtgtga ttgagaggcc cgagaaggag gctgccgtta tgaacacgaa gtcattcaag 240
 tatgcctggg tgctcgacaa gctcaaagct gagcgtgaaa gatgaatcac cattgatatg 300
 tgctttgcgg aagtttgaaa ccaccatgaa ctactgcacg gtcattgatg ctctggaca 360
 tcgtgacttt atcaagaaca tgattactgg tacagccaag acgacttggg ctgtccttat 420
 tattgactcc accactgggtg gttttgaagc tggatattct aaggatggac agaccctga 480
 gcatgctctt cttgctttca ccctaggtgt gaagcaaag atctgttgct gtaacaag 538

<210> 8035
 <211> 531
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090e01d1

<400> 8035

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 agccaaagca gaggtgtatc atggagatga actctgccaa gagaagtcaa agttgctgct 120
 aaaggaggta gggctaccta atgggctttt gccattgaag gacattgagg aatgtgggta 180
 tgagagggat agtggggttg tgtggctgaa gcagaagaag agcacaaacc acaagtttga 240
 gaagattggg aagctgggtt cctatgctcc tgagatcact gcctatgttg aggttggtaa 300
 gatcaaaaag ctactgggtg tgaaaaccaa ggagctcttg gtttgatca cactcagtga 360
 gatctttggt gatgatctc ccactggcaa gatcactttc aagactcctt cggggctctt 420

caggacattc cccgtctcgg ctttcgagat tgaagagcca gttaaggaag ttaaggaaaa 480
ggaggaagaa cacaaggaag tgaaacaggt taaggaagaa ctcaggaagt t 531

<210> 8036
<211> 56
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220090e02a1

<400> 8036

atcctactat tcggctgccg tcctttttta tttcattctt ttttttactt ttcctt 56

<210> 8037
<211> 489
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220090e02d1

<400> 8037

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tttgaaaaaa ctgaaactat tggcacaacc attataactc aacgaggtag ggtaatatac 120
aaaaggaaac aaaaccaaatt ttgattccca taaaaaagaa agaaagaaga aaaggcaaac 180
ccgaaaatct gagtcatttg gcagagagga tcaccactg ttgtaagcac acacactttt 240
ccacacgtat accatttaca gctacattca caaaaatttc cctgttctct cttgagaccc 300
tttgttggtg gaaagaaaaa aaaaagtaaa ccaaagctcg ccaacttaact tccctttgtt 360
actttccttt tcggttacac tttttttttc ttcttttcta aaactgggtt ctttcctttt 420
ccggaaacac tgtcctcagt tccgttcgtt aatttggttg ttcctcgaga gatctcgaga 480
aatcctatg 489

<210> 8038
<211> 533
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220090e03a1

<400> 8038

ggtgtcttta atttcacagt ttcataagcaa ttatcgacaa aaaatccaaa atttcactc 60
 acatctctct ttgtttatga catctcaaac atttatctac tctctacca ctttctcagt 120
 tccaggtaag caagagaaac aatactcatc tttattacag ggttgtgtga actgaagagg 180
 gaggttactg gtttgcgag gcagtgcacac ttctgcaagc ctagaatcct ctctcctagt 240
 tttttgtgaa aacagatagt gtggtgcttt tggaggatcc ttttctcaaa gcttgcattg 300
 aacactatct acatttttgt gatcagttga agtgtggaaa aaatcttaag ctaaaggcaa 360
 tttgggaagc tggaacaatg ggttctgctt gttgttgctt gagttttgat gattttgaag 420
 attatgtaaa tccaaatagt cctgtatata ggaactgtgt gtgtctcagt tgcttgatac 480
 agaacctttt gattgtggta tgttctctct gtttctgtc tccttgcggc ttc 533

<210> 8039
 <211> 425
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090e03d1

<400> 8039

ccatctaaaa ttaaataattc tttttttttt aacggttttg gacatgcgga aatttttaaa 60
 cccaaaaaca aggggggatta gaatgaactc acaacaaggg ttaaggaaac ttttcatact 120
 tactatccat gacagaccct taatatggag tattcacaat ggctataagc ttatattctt 180
 ccatgcctaa atggctgact tcatccacaa cacaaacctt gtaatcaagg gaaagtcgtt 240
 tcattgaata ccatcacctt tccacaaaca ggacagttgg cacttttttc catccactca 300
 taaatgcacc caaggggaaa atgatgagag catttgggca ttatcttggg attctcttta 360
 gggttttctt caaaacaagt tggacagaca tcctctctct ttgaggatgc ttatacaaga 420
 ccaac 425

<210> 8040
 <211> 553
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090e04a1

<400> 8040

aaaaacatga agaactgaat ttatatatttc atgacggcat gagaattaaa gatttaatta 60
 aattaataat tcacaactgt attctatcct aaatgagcaa agaaattcat gatttgatca 120
 aagctccacc ttcatagggtt aatagcgtgt ttgaatttct atttatacaa ctcacgtgaa 180
 tcacaaatat aacttttaat tgcttttagt ctatcttaat gtgaaaattt aaattacaaa 240
 tttfaatcta aaaccacact aatttcttgt gttaggtcgt agataaatat cataattaat 300
 tgtgcattcc ttcatttttc aatttcaact taatttatca cgtgattggc cctgtgcacc 360
 acagcactga tgtcttgacc gtagtcaagt catgaattta tatcaatata gaaatttttt 420
 gtttttctta agatcaccat gttcgtttga tttttattga aaaacatatt cggctaggca 480
 atatatggct cactagtccc caccttaccg actacaaaac agtgggtaca tgatgggtatt 540
 aaaccatgat ttt 553

<210> 8041
 <211> 497
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220090e04d1
 <400> 8041

agtaattaat attagtattt attatttata tacaacacgt gagactccca atctctaagc 60
 atggacacta aaagggtgag aaactctaaa tctaaaccac ttaatcccta caacaccaca 120
 cttaaaccgt ggtagagagc tcaatttggt tcccttctga attgctatcc cctttgtcat 180
 ggacctgaat tggcttgtag gtgtacaatt tggcacaaac caagtagtaa ataagattga 240
 gaaactgcaa tatggtgata agccagtaaa agtactccaa cttccctttg ttgaggttgt 300
 tgtcagggag ccaatttgac ccattagacc cagcactgaa cttgtggacc aaagtaacca 360
 taatggtact cacatagttc ccagcagcga tagcagtcca aaataatgcc atggcagtg 420
 tcctcactact ctcaggggcc tggatcataga aaaactccaa gtgtccaatt gacataaagg 480
 cctcagccat tccatga 497

<210> 8042
 <211> 540
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090e05a1

<400> 8042

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ggcgggggctg cggtgcggcg cgtggcgcggt ggcggggggag gccaacaacc tgggcgggctg   60
gaggacgatt ccggaggaat gcacggagta cgtgaaggag tacatgaccg ggaaggggta  120
cgcggtcgac ctcgaaatgg tctccaaaga ggcggaggag ttcgcgagga gtgtgcctct  180
ggcgggcgac ggaagggacg cgtggatttt cgacatcgac gagactctcc tctccaatct  240
cccctattat gccgcacacg gatacgggct tgaggtcttt gaccacgaga agtttaacaa  300
ttgggtggag aaggggtgtag ctccagccat tgaaccaggt ttaaagctct atgaagatgt  360
tttgaatctg ggattcaagg ttattctact gacaggacgg agtgaaaggc acaggagtgt  420
cactgttgat aatttgatca atgctgggct taaggaatgg gaccagctta tactaagata  480
ctcagatgat caagggaaac gagctgtact ctacaaatca gagaagagga gtgagatgga  540

```

<210> 8043

<211> 437

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090e05d1

<400> 8043

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atgaattatt tgcaatgata ttcagtatac gaattgatcc actttcgta tgtacaattc   60
aaacagcaat tatttgcaaa tgaatgagac atttactatg gaatgtaata catgggattt  120
ggaagcttga aggaccgaac agatactgaa gaacctata aatcgctcca ctggtcacca  180
gaatttcaa gaatcctgta tccatctttc tccatctcac tcctcttctc tgattttag  240
agtacagctc gtttcccttg atcatctgag tttcttagta tgagctgggc ccattcctta  300
aaccagcat tgatcaaatt atcaacagtg aactcctgt gcctttcact ccgtcctgtc  360
agtagaataa ctttgaatcc cagattcaaa acatcttcat agagctttaa actgggttca  420
atggctggag ctacacc                                     437

```

<210> 8044

<211> 516

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090e06a1

<400> 8044

aagattttat ccaattgaaa ttttaaaaat gactgggata aacttaagaa ttcaattatt 60
 gaaattgaat aagtaaaca ttttaattgga ttgggtcgat ggtatcaaaa aaatggagta 120
 ctaactccca tttcttattt attattgaat taaccgatca acttgctttg ttatcgaaca 180
 tttctttttg atttcaaaaa ttttccggaa aaaatttgaa tctattttta tatgcgaatc 240
 aatcctacta cttctgggtcc tgagggtttct gcgcttgaaa aaaaaaatct gggacgtatc 300
 gcccaaataa ttgggtccggt actagatgta gcttttcccc caggtaagat gcctaattatt 360
 tacaacgctc tgatagttaa ggggtcgagat actggtgggc aacaaattaa tgtgacttgt 420
 gaagtacagc aattattagg aaataatcga attagagctg tagctatgag tgcgacagaa 480
 ggtctaata gaggaatgga agtgatngac acagga 516

<210> 8045
 <211> 404
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090e06d1

<400> 8045

aaaaaaaccc cccaatttta aaaccctttt ttggaaaaag gggaaaaaat gggttacgga 60
 aaaaaaaacc aggggggaaa aaaaccggaa aaaaacacca ttaggggggt ttaaaaaaca 120
 aaaaaaaaac cgggggggga acacaccccc aaagggaag gggagtggga aaaaccaggg 180
 gggacccccg ataaaaaaat tggggcccc cccttattaa acccgggggg ggggaaaaaa 240
 aggggcccac ccattgaaac gggggggggc ctctagaatt taaaagggg ggaggggggt 300
 gttccaaaag gaaaaaaaac accgggttta aaaaaccgta aaaacccttt attttataaa 360
 gggggggggc gaaaaacccc cccacaaaag aggggaattt tttt 404

<210> 8046
 <211> 495
 <212> DNA
 <213> Glycine max

060331

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<210>      8047
<211>      453
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220090e07d1

<400>      8047
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<210>	8048
<211>	438
<212>	DNA
<213>	Glycine max

<223> Clone ID: jC-gmf102220090e08d1

<400> 8048

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ggataacttg atattatattt attacatata tgcatagata gcctgctctc aaataagtcg   60
gcaggaacaa agatagagag attcaacgat cttcaaattt cacatttgcc agaaatatat  120
aacagaaaag aggggtatgg gatatgagtt aagttttgat cacattcaac tacactatcc  180
caaaccgtta ctcttaagac tttgaacttc acttgactc taggatcatg ttgttctcag  240
gagctaatcc aacacaagcc ctcaggatgt tttccagcat agctcgctgc ttgacaacg   300
cattcaccac tgggtgtacc ggtggaacca gaggggcctt ggtcaggtaa ctaaggatgg  360
tcgcaactgg gtggaatgag tggaattttc cctcattttc agctttaaac tcgattcgag  420
tgctgagctc agcaagaa                                     438

```

<210> 8049

<211> 424

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090e09a1

<400> 8049

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gctcaatcta catacattat aactggcaca gacactaaca atgacggaac gataaatgaa   60
gcctgtgatg atgcacgatg cctcagggcc ttgccatctt ggcatgctga cagctgctta  120
agcctctaaa gcgctatcgc ataccacgct attgaatgca ttgctcggca cgcagactca  180
aagaccctgg ccatctaaaa tatgctcgag cataccgcaa ggctacggat agtctgacac  240
cgctacatgc acctggcgag ctcgacgcct agactctcag tacataccct gctcatgtta  300
tgcatgttat gtcacatctt aagtccaatg agaacttaca tctgctgtac gacacctata  360
ccactgttcg tacacactca gtatcgtctg acaatgctta tatccagctt ggtgcagatc  420
gctc                                     424

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<210> 8050

<211> 524

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090e09d1

<400> 8050

atcagccaaa tagaattata tatattaaga taacagtacc aggggtactg tggttacaat 60
agagttaaag aaaacgtagt gaatccacct gccaaagctac tcagcttggg gaaatccacc 120
cactcaggag attacataat caggccccctt ggcttgtgaa ccttcctaaa ctacatcccc 180
gccattagaa cccatcctaa tctgctgaaa agcatattgg taaattgggtg gaccaataat 240
tgtagtgaat aatgaagtct ttctccgatg ctctaagcca cgaccacaac aggaacagag 300
catcatccat tagcttagca gcgttaaagc attcattcga gaaaaggatc ttatttctgt 360
gctgccatat tgaccacgtt aatgccaccc accagcactt ccacctatga tttctttttc 420
ctccattcat cccgttttga tgctgcaaaa aatggtagct agggataatg gggaatgccc 480
ctactattcc agtccatgct agagtatccc accttagagc taga 524

<210> 8051

<211> 501

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220090e10a1

<400> 8051

gtgctggggc acattctcac tctcgtttac caagagcgag atatctattt agatctctga 60
aaaacagagt ttcatattcaa ttcagtttta ttattaggtt ttgccgattg agagagaaaag 120
agaaatggga gaacgaaaag gaatcccaat ggctttgggg ctcttggcga tgatcctctt 180
cttcattgct tcctcttcct ctcacctcgt tcgcgcttcc gatgacgccg acgacgcgat 240
cttctacgag tcgttcgacg aggattttga tggacggtgg attgtatccg acaaggagga 300
ttacaatggt gtctggaagc atgccaagag tgatgggcat gatgattatg gacttcttgt 360
tagtgaacaa gccaggaaat atgctatagt caaagaactt gccgagtctg tcagtcttaa 420
ggatggaaca gttgttcttc agtttgagac tcgccttcag aatggcctcg aatgtggtgg 480
tgcatatatt aaatatcttc g 501

<210> 8052

<211> 469

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090e10d1

<400> 8052

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aaaaaagaaa tttctgaagt gaataaaaat ggccgtatct aagaaaattc cagatacata   60
gtttggcatc actctaaagc gtaaaaacag cctgtttcca accaagttac catgtctcta  120
ggtatgcagg catagaacta acaatttcta agccaagtac aagggactgc tctttccagc  180
aatcattcaa aaagcaaattg aagcatataa agtttagctac attcattgcc catgtcactt  240
ggaagtctct tcatcttttg tcgccttagg atgtattccc ttcaacttaa gaaattgtta  300
caaagaacag aaaccaaatt aaagaaaaat cagcatccaa ttagatcagg tgtttcagcc  360
tcaatggaca gcaatgcagt gtgaactttt ccagtccaac tgtccagtcg atcccgtaa  420
gatttgatct gttgaatacc cagaactctt ggctgcaccc aggaaacat                469

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<210> 8053

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220090e11a1

<400> 8053

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gcgtgctcgg tgctgcccaa gttctacgcc gaagacgtgc acccggagag ttggagagtg   60
ttcaactctt tcgggaagcg ttacattgtc acggctagtc ctagggatgat ggtggagccg  120
tttgттаagg cgtttctcgg ggctgacaag gtgcttgga ctgaacttga ggccacaaaa  180
tcggggacgt tcaactgggtt tgттаagaag cctgggtgtgc ttggtgggga gcataagaaa  240
gtggctctgg tgaaggagtt tcagggtaat ttacctgact tgggtctagg tgatagtaaa  300
agtgattatg acttcatgtc aatttgcaag gaagggtaca tggtgccaag aactaagtgt  360
gaaccactac caagaaacaa gctttttaagt ccaattattn ttcatgaggg ta          412

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<210> 8054

<211> 297

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090e11d1

<400> 8054

aacaaatgaa cccataaaaag caagaaaaca agttggggac tggtgctgat acaaaacgcc 60
 caatgataaa atgccagaca acttattctt acaaacgcag caggacctac ttatttcata 120
 taaagcttgc tctccacatt agatcttcca aaaaatcaac ggttgtaacc aagacagttt 180
 tccatccatc tggatctaaa aacgaagtgg ttttttgaat aaggccaaaa attggccctg 240
 gttgccgaga aaacatccct ccaacctctt ttatgacttg gttaactacc ttacaac 297

<210> 8055

<211> 393

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090e12a1

<400> 8055

cctcggggaa ttccaattcc acattttcaa gaaataagga ggcaaaaatg ttcatatatg 60
 aattggaatt atttgttttc ttattaggcc tctctgaag ccaaaggaaa tgagatcgga 120
 attcctcggg gaattccaat tccacatttt caagaaataa ggaggcaaaa atgttcatat 180
 atgaattgga attatttggt ttcttattag gcctatcctg aagccaaagg aaatgagatc 240
 ggaattcctc ggggaattcc aattccacat tttcaagaaa taaggaggca aaaatgttca 300
 tatatgaatt ggaattatct gttttcttat taggcctatc ctgaagccaa aggaaatgag 360
 atcggaattc ctcgggggta ccgagctcga att 393

<210> 8056

<211> 272

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220090e12d1

<400> 8056

aacatgtaca ttaatgaata tgattatata taatttaatt aattaacaaa attataaaca 60
 taaattatta atatatgtat tattataatt taaataataa ttaatattat aanaaagcgg 120
 acgttggagt catttacggg attacgagct aaatagtcgg aaggacgacc tttattttta 180
 ttaattaatt tttttttttt tattattttt taatattaaa tgaaaattta ttgggggaat 240

tttggggtgg taataaaaaat taaatatttt tt

272

<210> 8057
 <211> 604
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220090f01a1
 <400> 8057

gattccttga agatacacia acagctgatg gttcatggta tggaaattgg ggagtttgct 60
 tcacttatgg ctcttggttt gcacttggag gtctagcagc tgctggtaag acttacacca 120
 attgtgctgc cattcgcaaa gccgttaaatt ttctacttac aacacaaaga gaggacgggtg 180
 gatggggaga gagttatctt tcaagcccaa aaaagatata tgtacctcta gaaggaagcc 240
 gatcaaatgt tgtacataca gcatgggctc ttatgggact aattcatgct ggacaggcgg 300
 atagagaccc catgcctctt caccgtgctg caaagttgct cattaattct cagttggaag 360
 agggtgattg gcccacacag gaaatcacgg gagtattcat gaaaaattgc atgttgcat 420
 atccaatgta cagagatatt tatccaatgt gggctctagc tgaatatcga aggcgggttc 480
 cattgccttc cactgaagtt taatttagaa tggtttgagc acgaaaaggc aaaggcattt 540
 tcattaagat tgaggcatat taagtgtgtg taatcaagct taatcaattt tttcatattc 600
 ctat 604

<210> 8058
 <211> 531
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220090f01d1
 <400> 8058

agtttagcta cttacctcaa tctttctcat gggaaagttt gccctagcca atatcctctt 60
 ggtccttctc ttgaacttga gcactttgct caatgttctt gcttgccctt attgccctta 120
 cccttctccc aagcctccaa aaaagcctcc cgttggtgaa ccaccgggtc acaaaccacc 180
 aaaaccatgt ccaccacca agtcatctcc aaaaccaccc catgtacacc ctccctatgt 240
 tccaaaacct cctcactacc ctaaaccacc agttcatcca catccacccc atgtcccaaa 300

acctcatcca aagcctccag tgcaccccca tccaccttat gtcccaaaac caccagttgt 360
gccagttaca ccaccatatg ttccaaaacc accaattgtg aaccctccct atgtcccaaa 420
accgcctggt gtgccagtta caccacctta tateccataa ccaccagttg tgacaccacc 480
atatgtccct aaaccaccag tggtgccagt tacaccacca tatgtcccta a 531

<210> 8059
<211> 568
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090f02a1

<400> 8059
tccaaatata aacatggcaa tgaagaagt cttgtgggtt gttctgtccc tttcttttgt 60
ccttgaggatg gccaatagct ttgattttca cgacaaggat ttggagtccg aggaaagcct 120
gtgggacttg tacgagagat ggaggagtca ccacacgggt tcgcgaagcc ttggtgacaa 180
gcacaagcgg tttaacgtgt tcaaagcgaa tgtgatgcat gtccataaca ccaacaaaat 240
ggataagcct tacaagctga aactaaacaa gtttgctgac atgaccaacc atgaattcag 300
gagtacctat gctgggtcaa aggttaatca ccatagaatg ttcagagaca tgccacgtgg 360
gaacgggacc ttcatgtatg agaaggttgg tagtggtcct gcttcagtgg attggaggaa 420
gaaaggtgct gtaactgatg taaaagatca aggcattgt ggtagttgct gggcgttttc 480
aactgttgta gctgttgaag gcattaacca aatcaagacg aataagctag tctccttgct 540
tgaacaagag cttgtggact gtgacacc 568

<210> 8060
<211> 534
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090f02d1

<400> 8060
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cccttttttt tttttttttt tttttttttt ttttttttat cttcaaagtg atcaaatcat 120
attgcaatct ggactctagt tgatctattg ctatctatat aaatgcttta aagtaaagtt 180

atcattttgc atgaaactct tggccataga aaggagatta catgagaaat tgctagcact 240
 caaatcatat aaaatatatta tttctttggg atgtaataag cataaatata ttgatggata 300
 cactggcatt gaatctgaga tactaataga aaacaacaac caaagctaata tagagtatga 360
 ttttgtggga agcattcaaa cttcaaagtt catcttttagg agatgatgaa ggtcctgttg 420
 gattattgga ggagtttttg attgggtagg aagccaacat agctatgcca caaagtcctt 480
 cctttttaga tatgttcctt tgcattctga tgtaaccctg ttctcccat tctg 534

<210> 8061
 <211> 601
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090f03a1

<400> 8061
 caactatgat caagtcactg tcccacaatc caaaaaacgc caattccacc gcattcacia 60
 ggcactttgc caaaaaatct ggtgttttta tcaagatcat ggcttctgct acaccacag 120
 cagctcctat cacctttgga ttcaagaatt tggtggaaac attcactgtt gatgtgcata 180
 gagcagagaa caggccactg aatgtgccct taatagcccc ttttaccatt gctacctcta 240
 gattggccaa ggtgggagaa gtggccataa gggttgagtt gagcaatggt tctgtggggg 300
 ggggagaggc accaattttg cctttttgta ctgcagagga ccagaccact gccatggcca 360
 aggcttctga ggcatgtgcc ttcttgagga gatgtcctgc actcactttg ggttccatgt 420
 tgggggagat tgctggtatt cttccagggc atcaatttgc ttcagttagg gctgggatgg 480
 agatggcaat aattgatgct gttgcaaata ggattcgtgt gccattgtgg aggctttttg 540
 gtggggcttc aaataccata accactgata ttacaatccc aattgtttct tcagctgaag 600
 c 601

<210> 8062
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090f03d1
 <400> 8062

caataattaa acctatTTTT aaaaatttgc tgtatttcca tgttcatatc atattacatc 60
 catatctcat atatatcata tgcgggttcc agcttttagc aagtaggaac tagttattcc 120
 ccaatcaaaa aaaaaaagaa aaagtaggaa ctagttacta tttggtgcaa gacctcgaag 180
 gcagtttctt ttacagaaaa ggggtgaggaa tcgaataagt taaatacata gcaattgggg 240
 tgcttataaa aataaaaaata aaaacatagc aattgtggat aagtattggc tactcattcc 300
 ggacaagaaa tcttcacgta tggttgtact gtaaccacag tttcacacct taattaggca 360
 atttttaacc aacttgtcca tttatgcttt tccagattct tgtgttggca taattatctt 420
 ttacattaag caaggttgtc ccagtgaagg aatccaccat gtccct 467

<210> 8063
 <211> 530
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090f04a1
 <400> 8063

aggaatcgca acagcaaaag aaggtggtct cattgtttgt gatacttcca agggtttgc 60
 caaggttaca gaagaagatg gttttagtgt tcttgtttca cacgtaaag gttctcagtt 120
 aaggtttgca gacgatgtga tagaaggctc aaacgggaat gtatatTTTA gtgttgctag 180
 taaaaattt gatcttcaag attggtattt ggatgtgtta gaggcaagac ctcgtggaca 240
 agttctcaag tacaatccca catcaaagta gactgttatt gttcttgata atgttgcatt 300
 tgccaacggc gttgcactct ctaaggacga agattatctt gtggtttgtg aaacttggaa 360
 atacaggtgt ttgaggcatt ggttagaacg agcaaacata tgcacaacag atattttcat 420
 tgaaaacctt cctggtgcac ctgataatat caatcttgct cccgatggat ccttctggat 480
 cgctttgatt tcagttgact tctgaaggat ttgagtttgt tcacaacttc 530

<210> 8064
 <211> 508
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090f04d1
 <400> 8064

actaacaaaa tgtgaacaga gaatatgcat tatggaacaa tattctccta catgtgcttg 60
gtctaaatca tacatatcca tcatgggatg cttctttcgc ttgatccaag ctgaggcaca 120
cctttattca aggagggtta aacttgacta ttctatgcac tatacaatgg taattttcca 180
acaaagttag aattaagact accaaggtaa aggtggctct caaactccac agctgaagtc 240
acaaaattaa tcaccttccc atcactatca tcaagctttc ttattatcct gccattagtt 300
gccacattca ccaccgttgc tttcttcttg cagccattga caaggttaat tagccttgga 360
aacgatgcaa ccaagtgctt agttatcttg tagttgtgga caaactcaaa tccttcagaa 420
gtcaactgaa tcaaagcgat ccagaaggat ccacgggag caagattgat attatcaggt 480
gcaccaggaa ggttttcaat gaaaatat 508

<210> 8065
<211> 485
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220090f05a1
<400> 8065

gttcgagacc cttattgaca tttcagtgat agagatattg tcaaggcatg cttctgatga 60
ggtctacctt ggccaaaggg ataatccaaa ttggactacg gattcaaagg cattggaagc 120
tttcaaaatg tttggaaact gactgggatc tattgaggga caaatcacac agaggaacaa 180
tgatccaagt ctgaaaagcc gacatgggcc agttcagctt ccatacacat tgctccatcg 240
ctcaagtgag gaagggatga gtttcaaagg aatttccaac agtatctcca tctaaaatgt 300
gtgtgtggtt tgcttatcta tcgtgcttct gaataaaata gacaatactt gtctatggtt 360
attattggct gtatgtctgt atttggatgc tctcgatcgg cttgcatgta ataagagtgt 420
tttcaactgtc actcttgatt ccgatcatct taattattgt tactagtaat aatgtggaag 480
ctgta 485

<210> 8066
<211> 450
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220090f05d1

<400> 8066

caaaaacaat tgctctatta tttaacctag aattaacaaa cgtacagctt ccacattatt 60
 actagtaaac ataattaaga tgatcgaaat acaaagtgac agtgaaaaca ctcttattac 120
 ttgcaaaccg atcgagagca tccaaatata gacatacagc caataataac catagacaag 180
 tattgtctat ttatttcaaa agcacaatag ataagcaaac cacacacaca ttttagatgg 240
 agatactggt gggaattcct ttgaaactca tcccttcctc acttgaacga tggagcaatg 300
 tgtatggaag ctgaactggc ccatgtcggc ttttcagact tggatcattg ttcctctgtg 360
 tgatttttcc ctcaatttct gccagtttgt ttccaaactt tttgaaagct tccaatgcct 420
 ttgaatccgt agtccaattg ggattatccc 450

<210> 8067

<211> 472

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220090f06a1

<400> 8067

gtggtgcctt atcgctgtgg ttttcacgt cttccttctc ttatatttct tttttttttt 60
 tttgtcttcg ccgcacgccg aaacaatggc cggaaaagga gagggtcctg ctatcggaat 120
 cgatctcgga accacctact cttgtgtcgg tgtgtggcaa catgaccgag ttgaaatcat 180
 cgccaacgac caagggaaca gaacgacgcc gtcttacgtc ggcttcaactg ataccgagcg 240
 tctcatcggt gatgcggcta agaaccaagt cgccatgaac cccatcaaca cgttcttcga 300
 tgccaagagg ttgattggtc gtagattcag tgactcctct gttcagagtg atatcaaatt 360
 gtggcctttt aaggttattg ctggtgctgc tgacaagcca atgatcgtgg ttaactacaa 420
 ggggaagag aagcaatttg ctgcagaaga aatctcttct atgggtgtca tc 472

<210> 8068

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220090f06d1

<400> 8068

ataaaaacaa actttttaac ttaccatagt tcaattatth tgtggacatc atcatgctaa 60
gatgttcaact catgacaaca catacaacaa ataaaatcgc caacttcttt caagtaacat 120
agtactgttt acactaaaca tgcaaatact actacagcaa cttgaatata cattattatc 180
catatttttaa acaagattat tacacatgaa acagtcacgg ccattgggtct aacattttata 240
gaaagagggtc ataggagcaa attgaacgaa accagcttca gttaacatca actcgaggaa 300
cctcaaactt tagatttgga atcatagttt caaatgcttc ccatgaacca ggatcatgtct 360
taggagctaa tagaatgaag ccagtttaag ttaacctega ctcgaggaa ctctaacttc 420
agatttgga gcatagcttc gaatgcttcc catgaagcag ctgtctcttc atcacatacc 480
accaacttca aattctcaag attgggttact gagta 515

<210> 8069
<211> 409
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220090f07a1
<400> 8069

aagtaacaat ctcatcttg ctttattgag gcctgtcatg cgattcacia tgcttcaact 60
gttgaagaat ttgagatctc attcccaagg aagggcgatc agtgacgctg atatctctgta 120
ctggctgaac ttaccaatga acaacagagt tagaacttct cacatctaga gcttcgagca 180
gaagagcttg actactgaac tcttgacact tgagcttctg agtgctgtct atcctaaggc 240
tgtccatctg cacctgggtca tcatgggtct acgctatgat gagacgaggt tgaacgcctc 300
ttatatatac agcgttgac actagctgcg gcgttctata cacgtgatac ctcatgatat 360
tacggcggtt aagcagatga tgatcctcac tcttgcggtc agcataatg 409

<210> 8070
<211> 391
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220090f07d1
<400> 8070

gtaaaaagca agtaacatta agttggattg ggatacacia gataattcac attatctgaa 60

gtacattgca ataacatata cttcaccaaa cacaatcta aaaactctca aaagtccaca 120
 agtcacccctt ttctttcatg ctcacttgcc ggggacgaag ttggtggcgt agggccaggc 180
 attgttggtg actgggtccg caaggtgatc agcaagggtc tccaatggac ccttaccggt 240
 gacaatggcc tgaacaaaga acccaaacat agagaacatg gccaatctcc cgttcttgag 300
 ttccttcacc ttaagctcag caaaagcctc tgggtcatca gcaaggccca atgggtcaaa 360
 gctgccacca gggtagattg cgtcagtgac c 391

<210> 8071
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090f08a1
 <400> 8071

ggaacaaggc cgcataattt attaaagcca cgaaagagaa aacaacatag tgaagtctct 60
 tacatgactt gttgacacac agctgaaaca acataaagtg aagctagtgc ccctatttga 120
 acgcatctta ttacatatag atagatagga gcaagctaga ttgccgagcg gagatggaac 180
 tactgaatgt agtacagggg atttggaagc tgactgggtc tgctttcgcc tctgtggcct 240
 ccgaggagat cgctccattg gtctccaatg atcccaacaa tggtgtatcc ctgccttacc 300
 agtacctctc tcgctgactg atttgtatga aactgcattt ggagtggaag gatcttgtgg 360
 atccttgaga attaattttt cccatgt 387

<210> 8072
 <211> 490
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090f08d1
 <400> 8072

aacataggac actgagaaat cctgtctgat tcaaacgaaa aacatgttta accaaatcca 60
 aaacgcacta tcaaaatgat aacattatta ttcaaccttc caacctttct caatgtagaa 120
 gagagagaga gagagagaga gagaacttat ctgagcatgc gttcccttta gcgtagcaat 180
 cacactatca cttcaggata agctcttacc cttgaaaaaa agccattctt ttgtagacct 240

ttgcttggtg tccatataga tcaaactgaa tggaaaatca gaaaattaac caaacataac 300
 ttgactaaa acgaaatggt tgttcaaacc gcaaaacgtt gaataaaaag atgtcttgca 360
 actataataa tgaacttctc acactgccct catgatatac atccataact tgtgaggaga 420
 agaaatcttg acaactttat ttgtgactat ttgtgcatca cttggaggga aatcctgggc 480
 tttttgggaa 490

<210> 8073
 <211> 548
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090f09a1

<400> 8073

cttcatgaga catcacagag tcagtctatc atatcagact tagacaagta cttagaagaa 60
 ccaatctttc cagcgaattc cgattttaac atattgaact ggtggaaagt ccacatgcc 120
 aggtaccaa ttttgtctat gatggcacgt gatgttcttg ggactccaat gtcaactctg 180
 gcgccagaat tggcatttag cactgggggc agagtgctag attcttctcg tagttcacta 240
 aaccgggaca cgcgagaggc ttgatatgc acccaagatt ggctccaaaa tgaatctgga 300
 aatctaaatc catctccaat ccattctgct ctacctctc tcactgaatg aagttaattt 360
 tttcaaggtc ttattgaaga agcatcttag aattgtcgag gtctcctttg aagtgatcta 420
 gcctttgcaa atattctgtg aagatgcath gtatattcta gaaataccat gtagattntt 480
 aaatattata gatctncttt ctataagtgg tntaatggac tagcacacgg ctgaatctga 540
 tttggaaa 548

<210> 8074
 <211> 493
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090f09d1

<400> 8074

aaaagttaaa acatgcatga ttgcatttat tattttgggt tccattatac taacacaact 60

ctcttttatta atgacaaata caaatacatt cagccactcc aaatacatga cttaagcata 120
 cacaactgat taaggaatct ggttccttca atttcacatt tattttaaacc caggaacagt 180
 acttaagcaa ccataggggtc cttagataga gatactgttg ggaattcctc tgaaagtcaa 240
 tccctcctca ctagaaggat agagcagagt gtaaggcatt ttagctggcc catagcggtt 300
 tctcaatgtc tcactcttctg tcttctctat aagcttcttt tcaatctctt caagcttctt 360
 tccaaacctc ttaaattgcct ctaatggacc ggcatcagaa gtccagtagt caccaccatc 420
 tctctgcccc aggtagaact catcagatgc gtgccttgac aagatttcta taactgtaag 480
 gtcaatgagg gtc 493

<210> 8075
 <211> 495
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090f10a1
 <400> 8075

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 taaggttctc ccctctgccg cagcggaagc cctgcacccc gcacccacccc aacaaaacct 120
 caccaacatt atgtcaaaac acgggttgcaa agtcttcgcc gacactctct ctgctcaacc 180
 cgacgtcttc aacaccttca atgacaacct cgacggtggc ttaaccgtct tttgccccct 240
 cgacgacgcg tttaaagcct ttctccccc attcaaaaac ctaacaaaat ctggtaaggc 300
 cgcgcttctt gaattccacg ctgttcgggt ttaccagtcc aaagctactc tcaaattcaa 360
 taacggactt cagaacactc tcgccactga tggcgccaac aagtttgact tcaccgttca 420
 aaacgacggt gaagatgtta ctctgaagac gaagcttaca actgccaaga tcaccgacac 480
 tttgattgat gaaca 495

<210> 8076
 <211> 561
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090f10d1
 <400> 8076

gcataacatc cacatgattt ttaattaaaa ataaaaaata cacaattttg ttgcaggaat 60
gagagggcaa cccttgggac tataatcttg agaagccact tcggcttcca aaatagtatc 120
ccgacttcca gagcaaaaca caaggcta atatacaactt gaataacaag atacatgcag 180
gcagaagaaa aatgttttcta gtatgtcacg atagaccaa taaaattttt attgctgact 240
agtgacttgt gtgctaaggg ttctaagtgc gtacataatc cctatggctg cataaacatc 300
ccctaccgga atcacaaatt cacatcagtt ggaggagtgt atactagcac atacttacta 360
gttacataac agcagagtat tcaaccactg ttcgttcata gatgcatatc aaatcaacaa 420
ccttgaaggt cagccacct gagataaact aaccctgccc gataatgagc gtatgcccc 480
gccaccacca atatatgaaa caattggtga ctgtgtccgg caatgtcaaa tttcccaggc 540
atccatcgtt ctggaaatct a 561

<210> 8077
<211> 490
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220090:11a1
<400> 8077

cagtttttct tctgactggg agtggcaacg caatttcac cactctgcac cttatcagta 60
tggtttaatc tccctttttt ttttggtgaa ttaaatgaat gcagatcgtg gtgaagctca 120
aaaaggaagc gctgagacat ttttccgaaa agtaaagttc tggaaagaag atgctgaggg 180
agatgctcca cctgttttta atatagacgg tgtgaactac ttccacgtaa aggttgctgg 240
attgctatct gttgctacta ctagagtcaa tgtctcccct tctcttggtt tggaactttt 300
acaaagaatt gcacgtgtca tcaaagatta ccttgggtgt ctcaatgaag attcctttag 360
aaagaacttc gtgctcgttt atgaattact ggatgaagtc attgattttg gttatgtgca 420
aacaacatcc actgaggatt tgaagtcata tgttttcaat gagccaatag tgattgatgc 480
tgcacggatg 490

<210> 8078
<211> 235
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090f11d1

<400> 8078

ttaattactt ttcttttttt tttatttttt tactttcttaa ctaaacggag tgccaacaaa 60
 ggtgggttgc ttttgggtta aaacccctt tttaacccca aatgtcaaca aaaaacccat 120
 ttctttttct ttaaacctat tcccctcctt gtgaaaacat ctaccacatt tttattttta 180
 ccccccttt cttaacccc ctaccatttt ttctaaaata ccccccccc ataaa 235

<210> 8079

<211> 519

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090f12a1

<400> 8079

gagaaaagag ccaaagaaaa ttgcagtact ccaggtgcac tctgtgttct acctctgtat 60
 gccatgcttc ctgcagcagc tcaacttcgt gtatttgaag aagtcgggga tggagagcgc 120
 cttgttggtg ttgccacaaa tgttgctgaa acatctttta caatcccagg gataaagtat 180
 gtggttgata ctgggagaga aaaggtgaag aattatgatc cctctaattg catggagaca 240
 tatgaagtac aatggataag taaggcatct gccgcacagc gtgcaggcag atctggaaga 300
 actggacctg gacactgtta cegtctctat tcttctgcag cctttagtaa tgaatttcct 360
 gagcactctc ctgccgaagt tgagaaagta cctgttcatt gtgttgctct tctcttgaaa 420
 tccatgcata ttaaaaaggt tgcaaacctc ccatttccta cttctcttaa agattcttct 480
 ctgcttgagg ctgagaattg ctttgaagct cttgaagca 519

<210> 8080

<211> 522

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220090f12d1

<400> 8080

agaagtataa taaggtaata aagtgtatag taagaataat gaataaatta taataaagta 60
 gataagtata agttattaaa aaattatatt ataattaatt tattagaana gatggggttg 120

tagtctttta ngggttacga gataaatagt aggaggaagc actttatatt tttatatttt 180
 ttttaattttt ttttaattatt gtaaaaaataa aaggaaaatt attatggggg aatttggggg 240
 tgtaaaaaaa agggattata agagggaaaa tttatattaa aaaaaaaaaa agggggaaaa 300
 agttaaaaaa aaataagaac tgtttaaaga aaaaggtaaa tataatggtg gaagagatat 360
 atttgttttg ttggggagaa gaaaataaaa aatatttttg tatttagata gatgtataaa 420
 gagggaaaaa aaaataattg ttttgataaa aaaaaaaaaa tttatttttg gggaggggaa 480
 gcggttaaaa actttttggg aaaggggggt attttatttt tc 522

<210> 8081
 <211> 547
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090g01a1
 <400> 8081

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 gttgacaata gaggtagtgg acttacçgtt gcagctgagc gagtatctga tgatggatac 120
 aactggagaa aatatgggca aaaacatggt aaaggaagtg aatttccacg cagttattac 180
 aaatgtacac atcctaactg tgaagttaag aaactatttg aacgctccca tgatggacaa 240
 atcactgaga taatttacia gggaacacat gatcatccta aacctcaacc aaaccgccgt 300
 tactctgctg gaactataat gtctgtgcaa gaagacagat ctgataaagc ttctttgact 360
 agccgagatg acaaaggatc caatatgtgt ggccaggggt ctcacctggc tgagcccgac 420
 ggtaaaccag agttattgcc tgtagcaaca aatgatggtg atctagatgg tttggggggt 480
 ttgtcaaacc cgaataatga tgaggttgat gatgatgatc ccttctcaaa gcgaagaana 540
 atggacg 547

<210> 8082
 <211> 574
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090g01d1

<400> 8082

gctgaacccg tttcgctttc aatcgaaggg aagaacaaac attcaattca tggcagctgc 60
 aaagcttcaa gctttatgga atcaccacgc tgggcctaaa accattcact tctgggcacc 120
 tacctttaag tggggcatca gcattgccaa cattgctgat ttctcaaaac caccgagaa 180
 actttcctat cctcagcaaa tagcgggtcac agctactgga attatctggt ctggttacag 240
 cactgtaatc accccaaaaa attggaacct gtttagtgta aacattgcaa tggcagggac 300
 aggcttatac caactctcac gcaaattgcg gcatgattat tcctctgagg cggaggcgga 360
 ggtggctgtc acaaaagaat gatattaaat attttaaaag tccaagttat tgtgtagttg 420
 gaggcagatg cccaggctgt aatttccgtt atataattgt attcttactt ggtagttcat 480
 ttgtactttc ccaagtctca aactgttaaa gcattctcac ttggtgntg atgtggcaaa 540
 ataggaatc aagataagcg ggcactgaat atat 574

<210> 8083

<211> 418

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090g02a1

<400> 8083

ctagttcaag atcgcgagcg gccgcccttt tttttttttt tttcccgctc aggatcagtg 60
 tcagttatgc agtttttaac cttaaaagcc ttcttatgcc ttgagtcaac aagggcaatc 120
 agcatccgtt gagaatttga tgacaaggat catggcataa acctcatttt ccttaataac 180
 ctcccttggtg attggaggat tccctttcca tgtctaagga aaagatgtgc ttgatcatgc 240
 tgtgcatttc gtactgatat gtcaagaact tcattcccaa ttaatagctg ctagctgtct 300
 tcataccatt tcacatagct atctttgctt ttacaattat ttttgccatc atgatttata 360
 attacttctc aaattttaca taatacacta tcattattta aacttttcat ttttatta 418

<210> 8084

<211> 589

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090g02d1

<400> 8084

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 cttcaggtat tcggcgccg cccttttttt tttttttttt ctaaaatgtt actatcatat 120
 aaagttgcaa agtaacgaca tcattctttc agaaagtaaa aagggatgga ccgtgaagaa 180
 gttccccact tgtcaaccat tacctgcctt tggacgaaaa tttatgatcg gaaaatacag 240
 aaaacaaact tatttacact gatagttttt tatgaccatt aataagacag tcaaaaacat 300
 atattgtgac ctgagaataa acactacatt agtgtgccag gcgctgcttc atgtatatac 360
 ggatgaaata taaggagagg aaaaaaaga atgagccatc tcagcctttg ctgcacccta 420
 cgcacatcct tccttacaat tctgaataaa aaggaggatt tcccatgaaa atctggctta 480
 aggaagttca gtcctcatca ctatcataca caaccgccat ccgccgatgg gtgggttattt 540
 tccttggaga agagtcatca tcagattcaa atcccttcct tttggcact 589

<210> 8085

<211> 583

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090g03a1

<400> 8085

gtgaagatgt agagaataat gaagcagaca ggtttgattg gatttgtatg ggtcatgacc 60
 ccccgttgat ggaatccaat caaacctgtc tgtgaagatg tagagaataa tgaagcagac 120
 accttaaaat caagtccaaa ccagatgaa gttgctacat ctattagtgt taatgaaacc 180
 tcttctgtaa agttttctgc caagtccagt ttgaagacat cctcaaggca tgatcttgct 240
 atggttttca cctgcaaggt ctgtgaaacg agatccatta agacggcttg tcgcaatcg 300
 tatgagaaaag gtgtagtggg ggcaagatgt ggggggtgta ataaccttca cctgattgca 360
 gatcaccttg ggtggtttgg tgaaccagga agcgttgagg acttcctggc tgctcgtgga 420
 gaagaagtga aaagaggttc agttgacaca ctgaatctta cattggaaga tttagctgga 480
 aggaaacctt gaaagataga atttgaccaa gtgtatgttc tgcatagggt gtcactgaaa 540
 agttggaagt gcaagggagg taacaatagg tggttttggg aac 583

<210> 8086
 <211> 553
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090g03d1

<400> 8086

cataaattcc tttcttggt aaattttgca catgaagggtg tatcatgggtc taaaaacatt 60
 cctttggcag gcacaaaaa taattgataa agcaaacagt acattgaata tgttgctttt 120
 taatattact agcataatta tagacagaag agccgagttt acaaaaccaa ctattgttac 180
 ctcccttgca cttccaaact ctcaagtaca ccctattgca gaacatacac ttgggtcaa 240
 tctatctttc aagggttctt tccagctaaa tcttccaatg taagattcag tgtgtcaact 300
 gaacctcttt tcaattcttc tccacgagca gccaggaagt cctcaacgct tcttggttca 360
 ccaaaccacc caaggtgatc tgcaatcagg tgaagggttat tacaccccc acatcttgcc 420
 accactacac ctttctcata cgattcgca caagccgtct taatggatct cgtttcacag 480
 accttgcaag tgaaaaccat agcangatca tgcctttgag atgtentcaa actggacttg 540
 gcagaaaact tta 553

<210> 8087
 <211> 577
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090g04a1

<400> 8087

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 ctcatggagg atgatgtcat cacacatgaa gaggttttcc ctacaaaatc aaactccacc 120
 ctccaatttg accatggaag ctccaatccc tcattggcct cttcctccaa gagaaaatcc 180
 aaagtgcatt aatgctccat ttgcatagg agcttctctt cgggacaagc attgggggga 240
 cacaaaagggt gccattggat cacttcaa atgctctgaca cctccacatt aacaagattt 300
 caacaattcc aagagcactt ggatcaaata cccaatttg atacctcttc cgagcctctt 360
 gatctcaa at tagaccttaa ccttctgca ccctcta atg accttgcaag aagggaatgtg 420

aacacagaat ttacttgca gccttgggtt gcatcaaaag atgctaaaga tgataacaat 480
aatagccatt gtcaaagtct ccataaccct aatacaatgt tgatgttgac aatgatgagg 540
acaaaaacaa caacaacaac aactcaatgc ataacat 577

<210> 8088
<211> 512
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220090g04d1
<400> 8088

attaatcaga ataaatcttg atatcaaaaa aatgaaattt acagaagata tcaaaaaatt 60
gtaagttata tggttttttg atgatttgat aatctccgta taagtactta cgttttctat 120
gtttatatag taaaagaaga aaagagaaaa cttcaaggca attgccaaat gcgacacctca 180
aaatgctttg ctttggtcaaa atatcttcag cagttatcag tttcctcatc agtagcagtt 240
gaactgatcc ccacctgcaa ccatggcgaa gaactgccac cagctttcat gtcctttagc 300
tcaactcagtt tcgccaaactt gatcttacta tcagcttcat tatccatggt ttgcattgag 360
ttgttggttg tggtgttttt gtcctcatca ttgtcaacat caacattggt attaggggta 420
tgagacttt gacaatgggt attattggta tcatctttag catcctttga tgcaacccaa 480
ggctgcaagt aaaattctgt gttcacattc ct 512

<210> 8089
<211> 448
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220090g05a1
<400> 8089

ctccacacta ctacatcact ttactttact ctaatcacta ctaactcttc tctatcttcc 60
atctatcgcc aacattccct cegtcttctc attatttact cattctatat ccgttatcta 120
tccatatatt taatagatat gcggctctat cttnanntnn cncnnantcn nnaannntnn 180
nccnccaca ccataccttc tatttccagt tgacctatga tgtcagcctg gtcttcgctc 240
aatctgggag aatattatg aagaggcaca tgctgtaata tttgttggtg atgcttcttg 300

tccgtcacgc tttgaagatg cgaagtcagc actggaaaag gtgcttcggc atgaggatct 360
 acaaggagcc cctcttttga tattagctta caagcaggat attcctgaac cagtatcacc 420
 tgataacctt gctcaatatt tggattta 448

<210> 8090
 <211> 222
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090g05d1

<400> 8090

aggaaaggaa aataattcat tcaaaattga acgggacaat taccatttaa aggtgccaaa 60
 agttttccac gggggaaaag ccaaaaaccc ttccggggcaa cccattattt cacaaaatgg 120
 ttatacaagg gctgttaaaa aaaaaattgc tttaaaaaaa accgggaact gggcccttta 180
 tatgaaacgg ggggattaca accttgggaa taaatttcaa gg 222

<210> 8091
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090g06a1

<400> 8091

ctcgagccga atcggctcga gctcagaatt ctctaaaaga gatctttttc tgctctttga 60
 agaaagaagg gtctttgctt gattttggag atgtctctgc tctcagatct catcaacctt 120
 aacctctccg ataccaccga gaaggtgatc gcagagtaca tatggatcgg tggatcagga 180
 atggacctga ggagcaaagc aaggactctc ccaggaccag ttagcgaccc ttcagagctt 240
 cccaagtgga actatgatgg ttccagcaca ggtcaagctc ctggtgaaga cagtgaagtg 300
 attttatacc cacaagccat tttcagggat ccattcagaa ggggtaacaa tatcttggtt 360
 atctgtgatg cctacactcc tgctggagaa cctattccca ctaacaagag gcacgctgct 420
 gccaaagttn tcagccatcc tgatgttgnt gctgaagtgc catggtacgg tattgaac 478

<210> 8092

002220"ETFE50

<211> 435
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090g06d1

<400> 8092

gataatccag ctaactcata ctcaaaatga accagtcaaa aacttatcaa tggatatgaa 60
aagaactgga ccatttataaa aaaaaaaaaa aaaacccaac tttcctcact ttttgcaaat 120
aatgatcac tccaacaaga gaataccatg aaaaggataa caaaagctaa aatgaaaggg 180
ttacaatctg caatgcattg cttccagaca aatcatgatg atagtagtct ttcgcttaaa 240
taaccctatt tttaaaacag ttttaaaagc actttttggg cacaattgat ggaccaaact 300
cggcatattc tgcctttgca atccacattt gctggaaggg gctaaaagat gccaaagattg 360
aaccaccgat ccaaacactg gattttcttt ccggtggggc tacaaccttg atcttcatgc 420
tgctgggtgc caatg 435

<210> 8093
<211> 497
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220090g07a1

<400> 8093

gttcaaata tctttgatgc tttgagctgt gatcagaaga aaatgttaat tcatattgcc 60
tataacctca ttggacaaga aaaggcaata gttgaagaca gacttcatcg tctttttggg 120
gtttgggcaa aagatggtat tgacatgttg cttcataaat ctcttgtaaa gattgatgag 180
caaggtcagg tgacaatgca ccacttgaca cataacatgg taaaagatat ggagtatggc 240
aaaaaagaag accaacctgc atcaaattat gggagcatgt gtgatttgat ggaattggac 300
aaaaacgggt atgtcatgga agaaatccaa ccttcgtcta atgattacga accaatggaa 360
tatgaatata aaaattgttc tacctcctct tcttgagatc cttcatgatg ttatttaaga 420
tctgcttccc tcttttccaa gatggacgag aggcggcaca tncgtgntnt attgttttat 480
tctgaggagg gcttaat 497

<210> 8094
 <211> 323
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090g07d1

<400> 8094

atgaaaaaag ttcatgtaaa gcagtggatt agatgaggaa ataaaaaatt tcatgatcga 60
 gttttgtacg atcaatgaaa tacacaagaa attgattaag ataagacgaa tagtagctta 120
 gctagtcaca aggagatgaa aggatgatcg atcagaagtt gatgaaagca cggagaagcg 180
 tgagaaagtc atcaaagcat cgaaggaagt acaagtagca gcagcagtag ttgttgatga 240
 tttgtctgcg cttgagttct ttgatttccc tttgctttct catgctttct atcacatact 300
 gcttatacat acaatcattc att 323

<210> 8095
 <211> 249
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090g08a1

<400> 8095

gaccatctgc agtcaattgt ctgtgcataa aattagattg aagttgttgg tgcatcattt 60
 tacatgctaa tgtatacaaa aattaaaata ataataataa taattcagca cagcaaattg 120
 tggagatgct catttataaa gtttcttcgt cagcttgaaa aggatcattc ttagtcacca 180
 caataaaaaa aaattaaaat taaaatttgt taaataacag gaccgggtta acagctaaaa 240
 acaagggaa 249

<210> 8096
 <211> 375
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090g08d1

<400> 8096

acaacaactt agtttgtacc ttattccat aaattaataa aataaaaaag agacatgtat 60
 atctttcctt ggtcttatac atcgacatac ggtagctcca attattagcc aacattacag 120

gaaaagaaat ttcaagcaca caacacaaac acaaatattat tgaagatata cattttattat 180
 gctctctcaa acacaactgg gagcacatta ccatccaagg ccaagaaaat cttctttattc 240
 tcacgcaagc caccaacaat gccacagtca aacttacaga aggggcacac atcaatagga 300
 caccaaccaa tattataaac acctttaact tgggtctccg aaatcctaaa gtaactacca 360
 acacctacta caaca 375

<210> 8097
 <211> 541
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090g09d1

<400> 8097

gatgtataat caactttaat ttacactatt tcaaatccaa aaaggaaaaa agaaagttac 60
 aatatacttg gtctacttct tgccatcaag atacaatagt caccocgttg atagttgtcc 120
 cacataaatt agtaatgtcc aaaagcacta ttaccttgta aagctttttt aaagggaact 180
 ataagtagtc attttataca tctttgataa tcatacaaaa gccatcttta tcaatgtacc 240
 atttgactag tttcattggc ctccaacat tggtcacatt ttatcttcca cttggcatag 300
 aggagcatct tggaattgct tcagctttgg aactgcattg cactgaagat attgaggcag 360
 agggctcttag gaggggtgta acagccctac ttgaagtttc attagcaatg ggagaagggg 420
 tagctgtaac agcttttact tgttgtaatt ctacttcagg agtatcaatt aattgatcat 480
 cttcttcaat ggacaagaca gtgcttggtg ctgtgtgatt gngggagtca tcggtgaaca 540
 t 541

<210> 8098
 <211> 290
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090g10a1

<400> 8098

gtgacaagct tacattttga gttttctaga ttcttgacat gggttttaagg gtgtacgggc 60

ttgatgttgg gaaaaaaggt gtggcctcta ctctcattgt agaatgtatg aatctgcttg 120
gcactgccgt agaagttgaa ccctgaaaaa attagccatt ataagaggca ctaatgtgcc 180
tttggaatg tgagcatgat ttgcaaatgg ggttgctctg aatactttta caatagctct 240
gaacctctca ggaaggaaaa aacatgcctt gtatttctct tttttggata 290

<210> 8099
<211> 555
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090g10d1

<400> 8099

gatgtataat caactttaat ttacactatt tcaaatacaa aaaggaaaaa agaaagttac 60
aatatacttg gtctacttct tgccatcaag atacaatagt caccctgttg atagttgtcc 120
cacataaatt agtaatgtcc aaaagcacta ttaccttgta aagctttttt aaagggaact 180
ataagtagtc attttataca tctttgataa tcatacaaaa gccatcttta tcaatgtacc 240
atttgactag ttccattggg ctccaaccat tgttcacatt ttatcttcca cttggcatag 300
aggagcatct tggaattgct tcagcttttg aactgcattg cactgaagat attgaggcag 360
agggtcttag gaggggtgta acagccctac ttgaagtttc attagcaatg ggagaagggg 420
tagctgtaac agcttttact tgggtgtaaat ctactttagg agtatcaatt aattgatcat 480
cttcttcaat ggacaagaca gtgcttgtgt ctgtgtgaat ggtggagtca tcggtgaaca 540
tgccatgtct tctct 555

<210> 8100
<211> 504
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090g11a1

<400> 8100

gaaaaagtgt ctctctcaca ctcggtctga gactaactaa cgacttacca gtaaagagac 60
attaattaat ttgcaaaaag aagaagcatt gagattggga ttgggagatg gagcggaagt 120
ggagcagtga atctgggtggg aatgtgatat cgtcgccatc acactcgcgt aatgggcatt 180

ctcgctcctc ttcgctcact atccccggag gaggaatttc aaccgtcaaa aggactcaga 240
 atgttgctgc caaagccgcc gctcagcgcc tcgcccaggt catggcttct cagactgccg 300
 acgacgacga cgacgacgaa gacgatctag gatttcgcta cactgctcct ccacctctct 360
 ctctttccag gagctctgct agatctccat ctcttgcggt agctcggaac ctcgtagaag 420
 aatcatcaat gtatcttcgc ccagcaccac ctgctgctgg taataataga ccaccgctaa 480
 gcctcaggac tccagctcct gttc 504

<210> 8101
 <211> 516
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220090g11d1

<400> 8101

caaaaagaaa gaatcccagg cgaggagaaa gatggagggg aaggagcagg atgtgtcggt 60
 gggagcgaac aagttccccg agagacagcc gattgggacg gcggcgcaga gccaagacga 120
 cggcaaggac taccaggagc cggcgccggc gccgctgggt gaccgcagcg agtttacgtc 180
 atggtcgttt tacagagcag ggatagcaga gtttgtggcc acttttctgt ttctctacat 240
 caccgtctta accgttatgg gagtcgcccg ggctaagtct aagtgtagta ccgttgggat 300
 tcaaggaatc gcttgggcct tcggtggcat gatcttcgcc ctcgtttact gcaccgctgg 360
 catctcaggg ggacacataa acccggcggt gacatttggg ctgttttttg cgaggaagtt 420
 gtcgttgccc agggcgattt tctacatcgt gatgcaatgc ttgggtgcta tttgtggcgc 480
 tggcgttgtg aagggtttcg aggggaaaac aaaata 516

<210> 8102
 <211> 549
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090g12a1

<400> 8102

caagtaccat ttttctcaac cttatcacc ttttgcataa aagggccacc ctttcttctt 60
 cttcccttct caacttgtag tacaatttct ggattgaatt atcttcaaaa tgagagaaat 120

ccttcatggt caagctgggtc aatgtggaaa ccaaattgga ggcaagtttt gggaggtgat 180
 gtgtgatgaa catgggattg atgccactgg aaattacgta ggtaactttc atcttcaact 240
 tgagaggggtt aacgtgtact acaatgaagc aagtggggga cggtatgttc ctcgagctgt 300
 gcttatggac cttgaaccag ggaccatgga tagcttgcgt tctggtcctt ttggaaaaat 360
 attcagaccc gataacttcg tgttcggcca aaatggagct ggtaacaact gggctaaagg 420
 gcattacact gagggagctg agcttattga ttcagttcct gatgttggtc gaaaagaagc 480
 tgagaattgt gactgcttgc aggggttcca aatntgtcac tcacttggaa gtggaactgg 540
 ggtctggat 549

<210> 8103
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090h01a1
 <400> 8103

aaacaactca ttttctgggt cacttttttc tacttataat agtactttcc ggtccacggc 60
 gtccattaat tccacaagcc gacaatgttt gcaactgaat gaatgcacac tttgtccttg 120
 tgtcatgatg aattgcaatc ctatctatct atcaaagttt catcaaattt attaatgctg 180
 caacttatgc tgcagaataa aaatgaactt ataattcaac tagaatataa ttttattaaa 240
 ccacacgttc ataataattat gcaaattttac tattagcaat tgatgaatga gataataaga 300
 gatgctgtct atgctgcaag ggtccagaca aagttatatt atcttttttac acattcccga 360
 atatcataac ttcgatattc a 381

<210> 8104
 <211> 620
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090h01d1
 <400> 8104

gccgactaaa tctaattctca gaaggaggca aatagagata aacgacagtt tatgcccgtt 60

ttgcagatct cagcaggagg atgcagctca tctctttttc aactgtccca aatctctagc 120
tctatgggtgg gaatctctag catggactgg aatagtaggg gcattcccca ttatccctag 180
gtaccatttt ttgcagcatc aaaacgggat gaatggagga aaaagaaatc ataggtggaa 240
gtgctgggtgg gtggcattaa cgtgggtcaat atggcagcac agaaataaga tcctttttctc 300
gaatgaatca tttaacgctg ctaagctaata ggatgatgct ctgttcctgt tgtgggtcgtg 360
gcttagagca tcggagaaaag acttcattat tcactacaat tattgggtcca ccaatttacc 420
aatatgcttt tcagcagatt aggatgggtt ctaatggcgg ngatgtagtt taggaggggtt 480
cacaagccaa ggggcctgat tatgtaatcc tctgagtggg tggatttccc caagctgagt 540
agctttgcag gtggattcac tacgtnttct ttaactctat tgtaaccaca gtaccctgta 600
ctgtatctaa tatatataat 620

<210> 8105
<211> 526
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090h02a1

<400> 8105

gtccattctc caaaacaaaa tgaagagcct cctcttctct ctcttctctt tcctctgggtt 60
agcctctctc gccgtcgcca ccgtcccccgc ccacaacatc acccgcatgc tggccgcaca 120
ccccggcttc tccaccttca accactacct ctccgtcacc cacctggccg aagagatcaa 180
ccgcccgcag accatcaccg tcctggccct cgacaatgcc gccatgtcct ccctctctga 240
caagcacctc tccctcccca ccatcaaaaa cgtcctctcc ctccacatcc tcgtcgacta 300
cttcggcgcc aaaaagctcc accagatcaa caacagcacc accctcgtct cctccatgtt 360
ccaggccacc ggctccgcct ccggcaccgc cggtacgtc aacatcacca acctcaaggc 420
cggcaaggtc ggcttcgccg ccgaagacaa cgacggctcc ctccactcct tctacgtcaa 480
atccgtcaag gaaatgccct actacatctc cgtcctccaa atcagc 526

<210> 8106
<211> 493
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090h02d1

<400> 8106

gacataaaaa actaatgagt tgaaaagtgt ttatatgcac acatcccata gctggcaggt 60
 agcacaaaacc ggatctaccc aactgaaaa aaagaggcca ataaaataat tcggaaaaca 120
 gacaaacaac aaatacaaaa cctataataa aaaaaagtac acatggcctc ctacatgtcg 180
 gtggcagcgt tttatttcct tgacatatat taaagaaaga aaagaatctt aattgaaaca 240
 agtgtatagt agcgacactc cataatccat gtgggtgttt catagagcca aaaaagccat 300
 aattaaactg aagaagacca tgaagaatct cacgtgcaat ccgcttactc cattgctgtc 360
 ttcacccgca gccttctgat cttccgaatc agcgtcgtcg tcggatggtc cgtccgacgg 420
 tgcacccgcc gcatggctgg atgtcttggt cttgttcttc ttcttggcgg gctttggcga 480
 ctgggcaggt gca 493

<210> 8107

<211> 585

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090h03a1

<400> 8107

ctctcacttt catttctaca tccctggctc tgttccgtcg atgacgatgg cgtttagggt 60
 gcgaaaccct gacctcgtt ttctcattct tctctctctc ttgtccatca cttccgcca 120
 ggtcttcttc gaggagcgtt tcgatgacgg atggggaaat cgttgggtta aatcagattg 180
 gaaaaaagat gagaacctgg ctggggagtg gaaccacacc tctggccaat ggaatggaga 240
 cgctaacgac aaaggatttc aaaccagtga ggattacaga ttctacgcta tttcagctca 300
 gtaccctgaa ttcagcaaca aggataagac actagtcttc caattttctg tcaagcatga 360
 acagaagcct gactgcggtg gtggctacat gaagttgctc agtgggtgatg ttgatcagaa 420
 gaaatttggt ggggatactc cttacagtat tatgtttggc ccagatatct gtggttacag 480
 tacatagaaa gtacacgcta ttcttaccta caatgacaca taccacttga taaagaaaga 540
 tgttccttgt gagactgacc aacttactca tgtttacaca tttat 585

<210> 8108

<211> 540
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090h03d1

<400> 8108

acgccccgct cgagctgtcc tgattaattc cactggcccc gctcgacgag ctactgagg 60
ccgccctttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
ttttgttttt tttttttttt tttttttttt tttttaacaa acaaactttt ttcttaaaaa 180
aaatggccaa aaattagaat ttcgggggagc gccataaggg gaaaccccat tggccgaacc 240
ctaaaagggc cccccccagg gggacatttt tgcccgggct aaaccgggaa aaagccaaag 300
ggggccccag ccaaagcccc cgcttttacc aaccgggttc cccggggcggg ttatctgggg 360
gaaacaaaaa accccccccc gggaaaaaaa cctcccggaa aaaaaccccc gggcaccctt 420
taaccggttg ggaaaccccc caagggccaa caggggcccc cccttcccgg ggggctcccc 480
caacttccgg ctttgagaca accacggggg ccttgccggg tttaaaagga atttccctt 540

<210> 8109
<211> 556
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090h04a1

<400> 8109

agccgttact ggagtaaaaa atcagggttc gtgcggatcg tggtggctct ttagcgccgt 60
tgagcggttg gaaggtgctc attttctttc tacagggtgag ctcgtagacc ttagcgagca 120
acaacttggt gattgcatc atgagtgtga tccggaagag cgtggagcat gtgactcggg 180
ttgtaacggt gggttgatga ccaactgcatt tgagtacaca ctccaggctg gtggactaat 240
gagagaaaag gattatcctt aactggaag agaccgtggt ccctgcaaat ttgacaagag 300
caaagttgct gcttccgtag ctaacttcag tgtggtttcc cttgatgaag aacaaattgc 360
agcaaatttg gtccagaatg gtcctcttgc agttggatc aatgcagttt ttatgcagac 420
atatattggt ggcgtctcat gccatatat ctgcggcaag catttgatc acggggttct 480
tttggtgggg tatggttctg gtgcttatgc tccaattcgt ttaaggaaa agccttactg 540

gatcataagg aatcat

556

<210> 8110
<211> 458
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090h04d1

<400> 8110

gcaataacta taacagtggg taatgatttg tggctagact agctagcata gagaattaca 60
gaataaaagc ataaacatgt gcttagcagt ttcctccttc ataacattac atcgtgcaaa 120
ttatttacat acatactata ctggtgcccc taccacgttt aggcattccat ccttatattt 180
aattgttaga aacatgtata gcagcgacag ttgagaccat cgagtccacc ccacatacat 240
tgcgacctct gcagatcttg taatatccct cttctcccca gctctccccc catgaattct 300
ttatgatcca gtaaggcttt tccttaaaac gaattggagc ataagcacca gaaccatacc 360
ccacaaaag aaccccgatga tccaaatgct tgccgcagat atatgggcat gagacgccac 420
caatatatgt ctgcataaaa actgcattga taccaact 458

<210> 8111
<211> 146
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090h05a1

<400> 8111

gcgggacata gaagctgttc ctgtgtgtga ggaaaaaaaa aacaagagag agagagagag 60
agaaagatgg agaaagaaac agagatgaag gcaattcaag tttaagagga tttgtgtctt 120
ctgtggcagt agtccaggga acaaac 146

<210> 8112
<211> 368
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220090h05d1

<400> 8112

00531113-033200

gcaaggccca ataagtcggy gctttttaac tttgaaaaaa tcaataacaa acccccgaac 60
 ttggccatat taaattattc ttggacaaca ttttgctacc aaaaatcccc aagggaact 120
 aggaataata acaaactttc ccgggggattt ccgggggggtc cttattggcc actttttaat 180
 cactaggccc cggattagca ggatttatcc ctccaaggga accctgggaa aaaaaacggg 240
 tttaacgggt aaaccgggcc ccaatcccaa tagccccccc cactttaacc cttttccagg 300
 gggacttttc cttttctcct taaacttttt cccatttca tcccgaaggg aaaaaacaca 360
 ccccttg 368

<210> 8113
 <211> 248
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090h06a1
 <400> 8113

atatgattcc acattggttg gtgaagcaga tactaattgg ttagcaaaa gttcttcta 60
 aaactaagtt agttccacaa aaggaagagg ttaaagataa tatatttaga gatgtgaaca 120
 agagaaaact ggtgagtgtg tcacatcggt ctggaattat attgaagtta aatagaggaa 180
 ataatccggy ttagtttact ctttttatat aatatatttc ttgagagagt tgcgccacgg 240
 gccctata 248

<210> 8114
 <211> 329
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090h06d1
 <400> 8114

actggtgtac ctttttggtc tttgtttata tcttactctg gtttttggtt tttctaaatg 60
 catctattcg ctatttggaa cggcggcaaa aactctgaag ctgaaaaggc acagccgaaa 120
 aagtgcccc aacaaaagac ctcatcagcc ccaaaagtag caccgcgca gaaaaaacac 180
 gtctaccacc cacagctgca tgcacagaaa taaaactgag tcaaaaagaa accccccccg 240
 ctggttctga taaaaaaagc taaccggggc ttgtcgtca accttcttt gctaccccc 300

acaaaagagc cccctttggg ccccttggg

329

<210> 8115

<211> 497

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220090h07a1

<400> 8115

ctgaagcgtt tgatgtagga gcaatcctct ccattgccag gaggcaatta tctagtgaat 60

tggaggctac tcgaattgaa gctttgcact ggatatccac ccttttaaac aattatcgta 120

ctgaggtttt gcaatttctg aatgacatat ttgacactct gctcaaggca ctttcagatc 180

catctgatga ggttgttctt gtagttcttg atgttcatgc atgcattgca aaagactctc 240

agcactttcg gcaacttggt gtcttcctgg tgcacaattt ccgggtagac aattcccttt 300

tggagaagcg tggtcctttg ataattcgtc gactttgtgt gcttttgaat gctgagagag 360

tctaccgtga actttctaca atattggaag gggatcgga cttggatttt gcatcaataa 420

tggttcaggc tttgaatttg atcttactta cantcgtgga actatctgag attcgagatc 480

ttttgaagca atcactg 497

<210> 8116

<211> 355

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090h07d1

<400> 8116

accacacaaa cccaaaccta ttggtgcatt atggctcaat ggggtgcagc agactcggca 60

ctacaagtgc gatgaaataa atacatggaa tttacaatg acaacaagaa acaagccaat 120

tcaatcctac acatccaatc tcaaacaaaa attttaaaaa aatatagatg tatagatata 180

tccgcagtat ttgatgaaat ctggagataa ctgaatcgaa ctgtgcaaac gatgcagaca 240

tctaagcgat tttatttgct taaactttct ggagcagcag gagcgggaga cttcaaaaat 300

ggttgagtg ctttaacaac aatgctcata tttggcctaa actcagcttc atact 355

<210> 8117
 <211> 339
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220090h08a1

<400> 8117

aaagtaaata tatatagtat atattgaaag ttaaaattac aatttactta ttaaattaca 60
 taattattgg aaaacttagc agtaaaagga aattaacac ttgaaatcat caacaacaaa 120
 gcttactaca cttatgcttt gttgcagggt ggcaaaggag aaccacagag acaatcatta 180
 tcaacaaaag cacttgccgg aaacttattc ttgggaagct gaccaccatg atggacatag 240
 ctaacattca acttctcaag cccaacaaca ctgtttggaa ccttcccaa caccaatta 300
 cgaagacaat tccaaaaact taaacctttc ccaaaactt 339

<210> 8118
 <211> 434
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220090h08d1

<400> 8118

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tatattttta tttttttttt ttttttatta aaatgtaaat aaatttttaa 120
 aaaaaacaaa ggaaataaaa agaaactaaa ataaaaccaa agaaaacaaa aaaaaaggaa 180
 aaaaaagaa gggaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaaaaaaa aaacaaaaag 240
 gaacaaaaaa aaaaaaaaaa aggagggaaa aaaaaaaaaa aggggagaag gaaaaaaaaag 300
 actacaaata aggggggaaa aagaaaaaaa aaaggagcca aaggaggagg gaaaaaaaaa 360
 aacaaacggg gagacacaaa gaaaaaaaaag gggaggccca tatgttataa aaaaaaaagc 420
 acccaagagg aggc 434

<210> 8119
 <211> 349
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220090h09a1

<400> 8119

gcacgcatac aaagtgattt attaaaatcc attcgatggt caaatggtaa tagtagaaca 60
ataaaagggtc caaacgccct aacaatgggtc taacataaaa gggaaaaaac accaaagaaa 120
aacaatcact gtctggaaaa ccggacttat tttcgcaagg acataataaa gacacttaag 180
aaaactactc ttcttcatct tcctctttcc agcacttcag agttgatcta ggtgaaccac 240
agtcacaagt cttggcaaatt ttttggtaga caagagaacc acccattcca agcccttcgt 300
ggctcctctc ttcgcgaçag tatcccttaa catccagaac actctagcc 349

<210> 8120

<211> 307

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090h09d1

<400> 8120

agaaaaaaaa tggggggaac gccacccgcc ccaataatct aacaataacc ccaaattgcc 60
ccctaataaa ccaaaaaatt ccgggggggac ccgaaaaccc aggccccaaa aaaagccaaa 120
aatgccccaa ttacccaag ggccccccaa accgggcacc aagttattca cctttttgaa 180
cccccgagca gcccaaacca aaaattgctg gaaaaaaacc ttttttcacc ccaaagggtt 240
aggggggggaa aaacccaaaa gtggggcccc aaaaaacca cccccccct ttgaaaaccg 300
aatTTTT 307

<210> 8121

<211> 626

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220090h10a1

<400> 8121

ctcccccttc gccgaggaac acaaacaaca acctcaactt aacgcattgt gtgcatgatg 60
gaggagatga aagtttctcg gcgggtggag tgggtggcaga acatgatgtt ccccgttcgg 120
agggtttggt ttgtcgttgc caagcgctc ggcatcgca aaactgggtt actgaagcta 180
agtaatgatg tgagggcatt cgaatatgag gacattcaag tgatgtggga gatactaaac 240

agaaacgaat cagagtttgg tcgttcttct agcactagga aaggcaacaa caagaagggg 300
 cattgctgga aattattgag gtgggcaagg tgtgtccat gcatgtgccg cacatgatca 360
 tgattgctgt gtacgtgaga agaaaaaat ccaacctatg tgttggtgtg gtttttctg 420
 cttcaatcat gaataaaaaa aaagggttct gaaaggtttg tgtagaacac ggttcttctt 480
 tccttttgaa tcaaccaact caacctatg taaatatcaa ctgcattcac caagttcgat 540
 ggtgtgacat ctcatctcc atcatgtgcc ttaatagtggt gtatcgaaaa ttgtgatgtg 600
 tagttctgtg gttcatcatc atcatc 626

<210> 8122
 <211> 328
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090h10d1
 <400> 8122

actggagaca ttcacattgc atagcaattt cgatattaga ctacaccttc tgaacgagag 60
 atagcataga ttgaatttac tgggtgatcta acacggcaaa gggctataat tgccggacat 120
 gatagcgtat cgaatgacga cttacacata caggcttggg acccactaag aggcagttga 180
 gcggagtggtg gagaaatgac catatccatt tctgtattac cctccaagct agagacatta 240
 tgatcgctca gaataagcat tcctgtcaaa agaacacgat gtttccgtac agactattca 300
 cagacactat tctataggcc tatatact 328

<210> 8123
 <211> 548
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220090h11a1
 <400> 8123

atttgacagg ttcacatca taaccttcaa tgaaaagaaa tggctgaggc aagcattggc 60
 agcaaaagca gcagatggtc ttacaggga atgacagctc tcgtcaccgg tggatccaaa 120
 ggaatcggat atgctatcgt ggaggagttg gcacagcttg gagccactgt gcacacttgc 180

gctcggaaacg aagctgaact caatgaatcc ttaaataaat ggaacacaaa aggatacaga 240
 gtaactgggt cegtctgtga cgtggcgtct cgtgcagaaa gacaagacct catagctaga 300
 gtctccaatg agtttaatgg caaactcaat atccttgtaa acaacgtggg aacaaacgta 360
 ccgaaacata cccttgatgt tacggaagaa gactttctcat ttctgataaa taaaaatctt 420
 gaatctgctt accacctaag ccagcttgca catnctctcc tgaaagcttc agaggctgca 480
 nacatcattn ntatatcctn cattgctggg gtgctatcaa taggtatagg atcccactat 540
 ggtgcaac 548

<210> 8124
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090h11d1
 <400> 8124

aaaagtttct ttatttcaag tgaagttagt tagttatatt tatatacaca atcgtgtcaa 60
 tgagatcaat tggtaacaag cttagcctta tggatggct tgtaattgca acatcagcat 120
 tagcaaaatc tgataacccc ccagtcctag acacacatgg caaccctatt gagcctggca 180
 aagattacta catcaaact gccataaccg acgttggagg ccgcgtcact ttgttttagca 240
 gaaacaatcc atgccctcta tatgtaggtc aagagaattc tgatgcagca gagggttac 300
 cccttttctt caccctttt gcataacaag atgattttgt gaacgtgaat ggggacttca 360
 aggtgacatt ctcagctgcc tcaatatgtg tgcagggcac aaattgg 407

<210> 8125
 <211> 523
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220090h12a1
 <400> 8125

cttcttctct taaaagagcc ttgtctttt ctttaggcct ttccgaatta agtacttggt 60
 tcattttctc tcgaagcaag aaaaatgttc atcgagagtt tcaagggtga gaggcctaac 120
 gtgaagtaca cagagactga gattcagtc gtgtacaact atgaaaccac tgaacttggt 180

cacgagaaca agaatggcac ttatcagtgg gttgtcaagc ccaaaaactgt caaatatgaa 240
 tttaaaacca acacccatgt ccctaaacta ggggtaatgc ttgtggggtg ggggtggaaac 300
 aatgggtcaa ccctcaccgg tgggtgttatt gctaaccgag aggggtatttc atgggcaaca 360
 aaggacaaga ttcaacaagc caattacttt gggtcgctga cccaggcatc agctattaga 420
 gttgggtctt tccaagggga ggaaatatat gccccattca agagcctgct tccaatggta 480
 aacctgatg atgttgtgtt tgggggatgg gattcagtaa ctg 523

<210> 8126
 <211> 548
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220090h12d1

<400> 8126

tttatttttt tttttcttat tttttttttt tttcttttta ttttttggag ggaaacaaaa 60
 aaggggtaaa aaggggtatc tttatttaaa ataaacattt acattattcc cccaaaccaa 120
 atttaacttg cggggtagcc agaccatacc tgacaaaaaa atttttaaca aggcatttat 180
 cttttttaaa ctaaataaggc gcctttttca tttaaatggg aaaacaacac cgcttcaaaa 240
 gttcgcaaaa attctcattt aaaaatattt tcaggggtga ctttttttct tccaagctgg 300
 ggcaacatat ttactaata tataggtacc aacatgcgaa gtgctacaag aaagttgctt 360
 tatttacata accatgccgt gttacttgaa catgggtttc actaaacttt ggataaatga 420
 acgcatacaa attaaacaaa aggggtttggc gtatttttctc tggaagttga cagctccaaa 480
 acccccaaaa atagctgggt ttttaagttgt ttgttcctgg gtgtgaaaag accatccatt 540
 tgtgtttt 548

<210> 8127
 <211> 297
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220091a01d1

<400> 8127

aaccaaacct tgcgaacct tataaattaa attcatgtgt cctcgggcat agaaaaaaat 60

acataaaaaat tatttgttca caacttggag aggagaccaa attgagtttc gggatttaca 120
 ccatacgaga ttgtattata gcaattctgc tcaccttagc agacgatgtc gtgcacactt 180
 gtggtgcaaa gacctccaag aaagacaaat ttttttggct agagatcaga ctgggggggtg 240
 ggtgaaagtt ctttttttaa ctctctttca aataactgtt tttccatagc tagatgt 297

<210> 8128
 <211> 404
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091a03d1

<400> 8128
 aataacaatc attctgtaat aatttatggg ccatggggat attgtttgca tcattcatat 60
 tcatcatacc gcatcatgat tgcaaggaat gaaataccga aattcattct tcatttaatt 120
 ctcttcaaat tcaatatacc ttctactagt gaatgtaaat gacttagcac cccgtattgg 180
 cttttttctt ccttcagagt aactcgagtt atgcttcggt attaccacaa catttaactg 240
 gtaaatttcc taggcatgtc ataaaccttt atagaaaata acaacctcat ataaagatat 300
 tctaggcata tacagttcgc ttcgaatata gaggccataa agttgtacta tcttttgaat 360
 agttaagtcc aagggaacca ttttcaaaca gttgtcatgg attt 404

<210> 8129
 <211> 318
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091a04a1

<400> 8129
 aaaaaacatg ccttttaacc ggccaattt tttttaaaaa aaaccaaagg ggggcaaagt 60
 tccaaccaac ttaaccccc ccaaaaaaaaa agttacaaac aagtgggaac tttttttttt 120
 ctattttgac cccaaccaac aaattctttt ttttttttagc tttaacaagg ccaacaacaa 180
 gtttggtttg caaaaaaccc aaactcttcc tagcaggggg ggtggctaaa atctttgggg 240
 caaggggggtt tttttttttt ccaaaaaaaaa aaagaaaagg ccaccccccc ccccccttt 300
 tatgtttgtt gtttttta 318

<210> 8130
 <211> 340
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091a04d1

<400> 8130

atacattaat tatgtaataa tttatgggcc atagggatat tgtttgatc aaccaaaaac 60
 aatatacaccg gatcatgatg catggcatga aaacccgggc ttcttgtaat aattataacc 120
 taacaaacacat atatacctgc caactacata aataaaaagc ctatagccaa tagtattggc 180
 cttttatctc ctttcaaagc aaatcgcat atcgcttttg ttatttccaa aacataatca 240
 ctggaaaatt tcgttaggct gacataaaac ctttcataga aaatcatcaa ccctcatata 300
 atgataacttg aaggcactat aaagtttcgc acttgaaaaa 340

<210> 8131
 <211> 301
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091a05a1

<400> 8131

aagtcaacaa aagaacccat aaaagcaaga aaacaagttg atgactggta ctgatacaaa 60
 acgcacaatg ataaaatgag agacaactta ttcatacaaa agcagcagga ctacttattt 120
 catataaagc ttgctcttca cttcagttct tccaagaaat caacgttggtc aaccaagaca 180
 gttttccatc catctggatc taacaaacgaa gtgggttttg tattaaggcc aggaattggc 240
 cctgggttgc gagtaatctt cctccaacc tcttttatga cttgggttaac tacctcagca 300
 c 301

<210> 8132
 <211> 575
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220091a05d1

<400> 8132

09531413.032200

aacaaaaata atccattcaa tgattcaacc gaacaatcaa caatacattg cgtaattttg 60
ataacatagt caccaaacia atgaaccatc ttgttacaat gcaacatcaa attcaatgcc 120
caaagaacac cacagatata tacatacaca catagaataa cttttccttc cctcaacctt 180
ggtagtgtta aatcagggtc acagcagctc aatatgtttc atcctcattc aatttattga 240
gattgagaat atactacatg ttacatccag taaaatatca catgagactc aattcataca 300
aacttataga cttgtagtag taatagtaga gggatatatca agaaatcaaa actaaactac 360
ttcacttgcg atcgacaaaag gtaaagcgca atgaaaacac tacctgcoga cccaaatttg 420
aatatcaaac atggaacatg aaagtaaaca aaaagagaca gcaaagatac ctaactaaag 480
aaagcaaaaa actgaccaga gattgtgacc ctttcttgat accagancaa cactttatta 540
gcataaaatc ctttaggcat angtttatgc aatgc 575

<210> 8133
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220091a06a1

<400> 8133

gcctcatata ttaacgagtt aatattatat tatttatatt attagttagt ttcaaaatta 60
ttatatcttt ttatataact aagaagggtg ttcggaaccc angacttnac anaagaacgg 120
aaacgggtcg agaaacacgg ccaaaaaaaaa agaaatttca aggggtgatt tttgtctgct 180
aagttgtaaa ataggggtat aatgggattg ggggtgatgtg agccgtatag atcttgtgag 240
aaatcgacgg ttgaatgtat ttatattggc ggataaatga agcgagtta tgtgattgag 300
ggttgacagt ggggagacca gaagcaggca ccgttgaaag gataagctaa aaaaaccgtg 360
ggttgcatgt aaatattggt ccgtttttcg ttagcacctg ccacgttaga atctactact 420
accattatgg cgtcggaa 438

<210> 8134
<211> 565
<212> DNA
<213> Glycine max

09531117-032200

<223> Clone ID: jC-gmf102220091a06d1

<400> 8134

ccaattcatt cattgcttaa aagtagccga gagagagaag cgaattataa aaaacaataa 60
tcaaccaaac ctagggcgca atttatcaaa gtagtgatta acacatttgc aagccacgaa 120
gcaacatact caactttcaa aaatctgaca ataatgcagt caactaaaat tctgttctaa 180
cacctcaaga aatgcaagag ttctgatatt aacttgaaga gcatcaaaag gccaccattc 240
tctttggcat cgaaagtga atatagcaac tccagtcgta taccatacga agtttaaagt 300
cttctacccc ttctaccact ctttctacgt gtactatccg aaggaatggg agtaacatcc 360
tctatacgac caattttcat tcttgaacgt gcaagggctc gaagagctga ttgagcacca 420
ggaccaggtg ttttggctct gcttccacca gtggcacgga gcctgatatg aaaagcagtt 480
atgcccagtt ccttacatct ggcagcaaca tactgtgctg caagcatagc agcatatgga 540
gatgattcat ctctgtcagc tttaa 565

<210> 8135

<211> 532

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091a07d1

<400> 8135

atatagaaga cccatttatt atccactaaa caaaaagtta tcaagagagg aattgtgcta 60
cattgatttc aattccttga gataaaaaaa tgtagctaac tctaaagtta agtaatgaaa 120
taaaaataat taaagaataa agaagcacia tcattacttt ttaattaatt tatattgctt 180
gctttcgcaa ctccattactt ttattgccaa ttaagtattg tctttttgtg cctatgggtg 240
ttcggcacgc caggaaagta aggaattcca gtaacctcaa tccaatcagt tccatgaaaa 300
aacttagatg gtgagaacca acgtgctgct tttgaattga ggttccaaat cccagcccat 360
ttcacacgct tggatttgtc tgaaccaggg ccaatgttgt ggtactcggc atagaagcaa 420
gtatccatac cagaaggacc ctctagtcct tgccatggca aatacccaat cgcgtaaatc 480
aatcatcaa tgtatgtgtc catgataatg gtcctagagt aattcttcca tg 532

<210> 8136

<211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091a08a1

<400> 8136

atcggggatc tgcagtactg gatggacgag aactatctct atacctgctt tgctcacacc 60
 ggcgaggtta catcggttaa agtaattcga aacaagcaaa ctagtcaatc tgaaggttat 120
 ggggtttattg agtttaatatg tcgtgctgga gctgagagaa ttcttcaaac atataatggg 180
 gcaataatgc caaatggggg gcagagtttc aggttgaatt gggcaacttt tagtgctggt 240
 gagaggtcgc gccacgacga ttctccagat tacaccatat ttgttgggtga cttggctgca 300
 gatgttactg attatcttct tcaggagaca tttagggctc gttataactc ggtgaagggt 360
 gcaaaagttg tcattgatag gctaactggc ccgaccaagg gatatggctt tgtaagggtt 420
 tcagatgaga gtgagcaagt gagggctatg actgagatgc ag 462

<210> 8137
 <211> 495
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091a08d1

<400> 8137

ataagagaat aaaaatcttt tatttatatc acagtcgtac atatgatata agtaacatag 60
 ggctaacaca taaagagaca cataaaaagg gttacattat gggaacaccc atgatttatt 120
 aacccatagt ataatgccac cagaccagac cagacctaca aagcataaaa tatttaagac 180
 ctaaaactatt acatgggaag aaaaatgcat taactgcttt ttgagtcaag ggactttcac 240
 atgaccctat ttaatgacac aatcaaagtc cgcgatacac gagttaccct ctgcgcattt 300
 tcaactgtac caaattgaaa cctcttgctg attctgaaga gaatccattc ctactccttg 360
 tatatcctac ttgaaatcaa aggatgacac atcacaaggg gaattaaaca tcaaattggat 420
 atcattgttg ctgtggctgg tatcaaaagg agtgttcatg atcatgttca tgttcatggt 480
 ggccttgaac cggtc 495

<210> 8138

<211> 425
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220091a09a1

<400> 8138

aaatcataat gcataataga gatcatttca taaataagta ttcagcaagc aatttatgga 60
tacaaaagggc ggctccgata aaatttaatg ttattaagca aacaagggga aaaaagaaaa 120
agagtagcag agtcgggtttt ccacgagacg agaagagaca cgcaactcga taagtatcac 180
aaaagattac agaagaaaag gaacattctc ttctcaacta tatectatgtt gttgctgttg 240
ctgaggtggg ttgtaaccag gataccccgg ataactgcc tacatgttgg gatcctgtcc 300
agcagcagga gcatacccat aattttcata accttgtgca gcatacccat agtatccacc 360
accagaacca gcaccaccat tccactgggt tggatctgcc tgagcctgtt tgtttgaagg 420
actgc 425

<210> 8139
<211> 542
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220091a09d1

<400> 8139

atcgtaattc aatgttgcaa ttgaggtgcc tagcttggat aagcaaggct atcataatca 60
caaacacaac cacatgctct gtaaagatca tagacagaga ataattgttg cccacaacgc 120
caacacgctt gagaaagatt cggggcacat taaccatcaa aatgggttac atagtcaagt 180
gcatgcatac agacatagta atagtagtat taaagtagat aatgaaaacg aacatacaaa 240
catatgtatg catatgtaac tatgtatact aaaatattca attttgacag tgtaaacaat 300
agcggccaaa atagttcatg aacatactca acatagcggg ttgaaattat aaaatgaaag 360
ggtgtgagga ataataataa caactttaca tagataatta tgcatgccca tgtttccatc 420
ttcgtgtaaa caataatgca aacggaaact gttcctgtta acaaaaggat cagtactact 480
ggtataatgc tacattgaca taatctactt tgatgaaatg gcatttcatt tcttcctgag 540
ct 542

0953143.032200

<210> 8140
<211> 391
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220091a10a1

<400> 8140

gcaaaataaa attcatttaa gtttacaagt tttaatccaa acatgcccta actagtagta 60
atgatcttgt acatagatac aagagatcgt tattaattgg aggccaagat cctctgaata 120
tacaagatat gccattgtct tgcacaatgg aaaaaccatt taaagaataa cacttcatac 180
aaataatcat attttcagta acaaacaat agaagtggta gaactactat cggtaaattt 240
atcaattttc caggcagaga accaagagtg aactcatgag gattgaattc cttattctgg 300
ctcggcttgg tccatatgta tatatatgaa ttgcaattat tcttagccta ggagcaagaa 360
tggggggact tatgggccta tacttgtgtg a 391

<210> 8141
<211> 437
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220091a10d1

<400> 8141

gaaattgaat tttcgggaac tgtttgtatg gttgttagtt atgctggtta gtaaccgaag 60
cctctgactg tctaaagga cattggctcc ccacggatgt gccagagca agattgttgc 120
acctactgta agcacaaatc aaatgccatc cctaaaaatg aagagcaaag taagcgtgag 180
ctgtttaaca gaaacaaagg atcttcatgt gtgtccgaaa tcaaaaataa tttccaaaag 240
cccgtgttct aaaatcatga tttctacaca aaaggctgaa atagacacca ctgttcaaaa 300
ttgcctagat gtttcctcaa ggacgcagcc caaagacatt gcatgggatc aatctattga 360
taacaaagaa tttctggata aagaaaactc tgaatctgag cccaatttt ctggttgctc 420
ctctgtcctg ggaaaaa 437

<210> 8142
<211> 412
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091a11a1

<400> 8142

aatagtcaaa taatattagt tcccaaaata attaaggaaa attcaacatt tacatcgcat 60
actccattga aatcacctct atgtaagtaa ttatgaacta tgaacatctt gtttattgaa 120
caagggtgaa gtccaatcat gcccaattta ggaggcaaca agtacaactt atttttcttt 180
cagggagttc tcaatatcta tcacaaaccg gtacttgacg tccctattga tgagcctctc 240
aagagcttca ttggcatact cgattggaat tacctctata tttgggtgaa tctcgtttgc 300
agcacagaag tcaatcatct cctgtatatc tttgtacca cctgtaacac ttccggctac 360
agtctttgat cctatattaa ggcttgcagg gctgaatttg acttgacttg gg 412

<210> 8143

<211> 562

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091a11d1

<400> 8143

aatgaaatta aaatacaaga aattgaattg cctcatgcaa acaaaatatt tacaaaatga 60
aaagaattta aatcaagaca atcaaaatgc tgtcaatttg aatttcctaa aaatctttaa 120
attcctcatc caaacacata gttaaacatt ttccatgctc cagatatagc gttttgtgaa 180
acatgacctt caaccatagt tgttattgcc ataatatctg gcttaattcc ttttcccagc 240
atctcatcat acaacatgca agtttcttca tacctattca acctgaagag atgttgatc 300
aagtctgtat atgtggaaat agtaggcaca caaccagatt ctttcatgca ttgaaacacc 360
tcaagcgctc tgtcagcatc atttcttccc aaatacccat ttatgacaat cccatgaacc 420
cttccatcat ccatatccct tctcttcata atatcaacaa tctctaaagc atatgtaatc 480
ctgcctgcct tacacagcct ttaccaagt tcttataatt ttcaggcca gatctaaatc 540
tttatttttg aggtcacgaa tc 562

<210> 8144

<211> 417

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220091a12a1

<400> 8144

agacggagta aaacacctat tattatataa tttttgggac aaacattatt agtagcacca 60
gcctctagca agctagggcg ttattacatt tttcttttgt cacatttaac tacgatgttt 120
ggaggtaaaa gggccttatt gagcaciaag cttggaagat ccaaagcatc attgctgcta 180
ccatctgaca acttgaagc aaaagaccaa gaaatcacat catgggtttc aacggagcct 240
tcatgcaacc cgggtggtggc agagaacca acgctcacc attcggaag attactcttc 300
aagttcactg tgtcagagag gatgtaactt gttttctttg aagggtggat cagagaagca 360
accaagagggc tcgtggcggc attataggta acgagaatct ccgccacttg tccattg 417

<210> 8145

<211> 526

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220091a12d1

<400> 8145

catccaaaga attactatgt caatccattt atacaaggta aaatttgggt gctggctggc 60
caatgatgaa aatttgtcta tccatatttt acaggggtcat ttcattgtac atgagaattt 120
aattaagttc gcagaagggg ttaagtacag gtagcatata ttagagtact ttagagaaat 180
ctgggtgggca tgtactcatt tatccggaga ggaagacggt aaaactcatc atttctaaca 240
tctcccttcc tattctggaa aggacccac catggaagtc ctctgtccac agctgtttgt 300
ttgccttcaa gtgtgttgtc aacaagagtc ccaacaatta tagccacagt tggggcagaa 360
gagaatatgg tggtcaaaat gtcattaaac catccaccac ctgttctaac tggaccatga 420
ccatccggtg cagtgttcat gacaaaatat tgtggtattg atatcgcaag gaacaaggtt 480
aggcccagaa catagatatt tcttatggaa ttggtatttg caaact 526

<210> 8146

<211> 409

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091b01a1

<400> 8146

gacaataact atcttcttac aaatttttaa aaaaaaaga aaaaggaagg agggaggaaa 60
 gggggaattg aatccaaaaa aaaaagaaga gaaaaacaaa atgggcaggg tttggacttc 120
 gaagatagca ttggtgcttt gcctgatgaa attatcggtt cggggcgagg acccttacat 180
 ttactacaca tggaacgtga cctacggcac cattgcccc a ttgggtgtcc cccaacaggg 240
 tatecttate aatggtcagt ttcccgccc cgaaatcaac ttcaccagaa acaacaacgt 300
 ggtcaataat gtcttcaaaa acctagatga gcctctcttg gttacatggc atgggtgtcca 360
 acagaggaag aactcttggc aagatggcac attgggtgcc cagtgcct 409

<210> 8147

<211> 407

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091b01d1

<400> 8147

accatattat tattttacag gggtttgtga tttttagaaa caaggaatac cattttttat 60
 ctaaattgggg caccaacaaa aagaccctac acttcagagg aacatgggtc agaagtgcaa 120
 aagttgcac caaacaacca tgaaggaaaa taatgaagct attcccagat tccgacctcc 180
 atgaagccat ttttagtggc acagccccta aacatgccat tgcaattgaa accataatcc 240
 actttccaaa cgttggacac agaaatgaga ccaccttcc cttaatagag acggggcttg 300
 ttacaaaat ccacggcttc tttaacttc aagcctttgg gtttcattat cgctgttaca 360
 aaaagaacaa atgtgttaaa tatgattttc tgaccttcac ccgtgca 407

<210> 8148

<211> 408

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091b02a1

<400> 8148

ccgttgctta cttcctctc caccgttggc gcgacaagat ccgcagccac accctctcc 60

acgtgggtcac tctctccgag atcgccgcca ttttctccct catcgccctcc ttcattctacc 120
 tactcgggctt cttcggcatc gacttcgtcc agtcctatat ctcacgcgcc ttcaacgacg 180
 cctggggacct cgacgacgcc gttacagatt ctgcctgttc ctctccctgt ccctctcgct 240
 cgaccgcaat caccaagaat gccgctcagc ggatgcctcg aacactccat tcctctagga 300
 cgaccagggg agcgcttgca cacacggagt ttgtgaagag ccctgctacg cgctcgagtc 360
 ccgcctgggc gactgtcgcc gtgccgggt gattcgacgc gcggcgct 408

<210> 8149
 <211> 418
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091b02d1

<400> 8149
 gaaaaaatga tgcactgcag gtttccactg gtccatccca caagacatct gggtaaaaag 60
 aaaagaacta cattttatct ttttatccta ggggcagata ttgaacatcc tttagtattt 120
 gttgtaggag agctacaatc acattttctt cttcatttgc aagccaaaca caatatgaag 180
 cattgactgc accttctctt tttataagaa gatacagaaa aagggggaaa gaatattagg 240
 gttggaagaa ggtggaaaaa ttgaacaaaa aaagagatgc tgctcatcat ccagaaacaa 300
 aataaggttc tgcctaccca ggaattttga aacagccact tgtggatctt ttttctaaaa 360
 gctcctgcta aagattttga agggcacttt gtagtgtgag ttaatgtagc ctccaact 418

<210> 8150
 <211> 393
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091b04a1

<400> 8150
 ccaacaaagt tttttccttt ttcattaaac ttcctttttt aaccccaatt gccaacaaaa 60
 aacctatttt ttcttttata aacctattcc cctcctgtag aagactacta ctacattttc 120
 atttttaccc cccctttctt taaccccta ccattttttc taaatcaccc ccaccccaaa 180
 aaaagattaa aaaaacactt ttccccaccc taacaagcaa aagatttatc atcattatca 240

gtttgtccac tcttggggca gcctaattctc atgggacact ggtggctgag atttgagggt 300
 gcgcttctgt tgttgagaaa ggacataatt actcctctgc ctggaaacag ctgcaccatt 360
 ttccatgttg gaactagcat taaatcggtg taa 393

<210> 8151
 <211> 128
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220091b04d1

<400> 8151
 ggaccccccc aactccatgt aacctcnatt gcaanaacnc gnnacggaat tatatacccg 60
 ccgtcgacca cgctcactag atcggtcggc cgcaccttat ttttttattt tttcttttat 120
 tttctttt 128

<210> 8152
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220091b05a1
 <400> 8152

aaaagaaaag ggattatttc ctatttattt tctcaagcca aatgcattta tacatcggtta 60
 gattatttaa tacatgcata cgaaacacgc acattggctt ctacacattt ttgtaataat 120
 tttgagatcc gaattctcac gtcaaattaa atttctcttt ttgctatctg tacctttaaa 180
 ccatccttca taagaagaac aattgaaggg cttggggtag caacatgatc caccactcga 240
 acacgatact tgtgcaaaat agcagctgcc accatcttca tttgaatgaa ggatatttct 300
 ttccctaagc aagtcctagg tctgcatta aaagcaatga atttgtaaga tggtaacataa 360
 acaatacctc ctt 373

<210> 8153
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220091b05d1

<400> 8153

aatggtgtgc tgacacataa ttagaaactt agatagtatt aagaatttta cactgataat 60
 atattgaatt tgtactctcc ctccccctta ttacattgaa tatatggcaa tctttttcag 120
 ccaacaagtg aagcataaat ctggtagagc tttgtctcta taattaaaag actgaaagaa 180
 atgcttgctg tccagctaca tctgaagatc tgcaggcatg tatcatagtg catatatctg 240
 tcgtctctag gattttctct gcattggtcaa aaatcaagtg tccatactcg aaaaccattc 300
 tcttgcaatt atttgcatatc ttctccactg aattgcacac ctttagtaac gtctcaatta 360
 tctctagctt agtatcactc tccttcaact tttccaatag agttgaaaca gtatcttggc 420
 aaaactcaca gctatcatct tgaact 446

<210> 8154

<211> 540

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091b06d1

<400> 8154

aacagaaatg cagatacatt cattttgtaa taatttatat acaatattga tattgtttgc 60
 atcaacaaaa aacaacaaac cggtacatga tgcaaggcat gaaaaaccgg tatacattca 120
 aaatatagaa gcaaaaaaac aaaaaactgc taactagaga agtaaaatgc cgaggccagt 180
 agttttggcc tttttcttac ttcaaagcaa atcgtgttat gcttcggtat taccaaaaca 240
 tatcactgga aaatttccta ggatgtcata aacctctata gaaatcaaca acctcatata 300
 atgatatttt aggcatataa agttcgcatt gaaaatagag gcactagagt agcagtatct 360
 tttgatagca atcaccaagg gaaccatctc caaacagttg tcatggattt tcatgttgta 420
 taagggacta cctatttccc agagtaccag ttttgagcac acttggcatc aacagagagg 480
 tcaactttaa gaatattttt gccgttaagg gtttggacat gcactcaaca actatggact 540

<210> 8155

<211> 548

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091b07a1

<400> 8155

gaacattcaa ttgcaagctt gcttgcacaa agcgccagtt agttcaaagg aacgaggctc 60
 aaaattgcct gagctgtggc cagccagact gatcaaagt ccttattggt tgtcgagttc 120
 ccaagttgga gtttatggaa agccagcccc tcaagatttc actgctgatt atgaacactg 180
 gaaacgtgta gtatccaagt cttatctaga cgggatggga attaaatggt caaatgtacg 240
 caatgtcatg gatatgagat ctatctatgg aggatttgct gcagctttga gagatttgaa 300
 tgtttgggtc atgaatgtgg ttacaataga ctccccagat actcttccta ttatttatga 360
 acgaggtctt tttggtatat atcatgattg gtgtgaatca tttagcacct atcctaggac 420
 ctatgatctc ctccatgctg atcatttggt ttcaaagctt aagaaaagg gcaatttggc 480
 tgctgtagtg gctgaagctg atcggattct taggcctgaa ggaaaactat tgttcgcgat 540
 actgtgag 548

<210> 8156

<211> 538

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091b07d1

<400> 8156

gcaagaatgt gatcaaattt ccttcacgct atggcaccat gttacaacag aggtcaccaa 60
 tttaataaat ataaataaag gatatcaaaa ttaataccca acaggaaaaa agaatacata 120
 gatattccta actaacatga tacatatgac tcagtgggaag tacagttaaa caggaatttc 180
 gagtagccaa aaaaccaaga attttggcat ctcatctcca tgcttaagca atagcatact 240
 cgagcttttc ctgctcctta ggtcgccact tggacttttc cacacataac aaaccctcct 300
 tatccttgga gtaagtcatg cgaacctttc actgcataga cctagccatg ctctcaagct 360
 cttcaatgat ctcaacagta tcgcgaacaa taagttttcc ttcaggccta agaatccgat 420
 cagcctcagc cactacagca gccaaattgc accttttctt aagctttgaa aacaaatgat 480
 cagcatggag gagatcatag gtcctaggat ggtgctaaat gattcacacc aatcatga 538

<210> 8157

<211> 434

002230-ETKE56

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220091b08a1

<400> 8157

attccaaacc caaaaccata aagtttgcac taaatttcga agaaacatga tatccatctc 60
aagacatatt aatgaacaca tgtaagagcc ttaaatagata caaactaaca gaaatcttaa 120
atataaatgt tcttagagtg aatcaacaca caaaattaaa ctaattaaga ttacttaata 180
atctatcttg ctcatcatgg tctaggtctc attcttcctt cattggccat cttgaagagc 240
tggtgcttggtg cttctgcggc cttgttgagg ttgagtggag ccacaaacct gtccctgact 300
tggttggttag tgtaagggaa cttgttggtc accatggagt tgaggaagga agctgtgcct 360
tctctgtaga gtgctcctag cccatcagtt cttgtgttgg aaagtgttg ttggcaagctc 420
aggccaggac tgaa 434

<210> 8158
<211> 429
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220091b08d1

<400> 8158

catcttaaaa gacttcatgg ttgattttgt tcatgtggat tacaatcttt aaattcaaaa 60
taactgttta tagtaatatc taatctatgt taccacacta tatatacgcc tctaaccaac 120
tttatcattg gagatgaaaa caagagcata ttgtacaaaa ctagtcatgc acctattcag 180
cagtcttaaa ccacaaaaga acccatatat ctgcccccat tcaaatcaag ggctttttat 240
ttccacatct tttcctaaca aaattgttta aaacttgtgt ccttgagagg ccatgccttg 300
accttggtca atctgcatga ttgttcaaca aatagtgaag ggataggtgt cttttcccat 360
gggatgatcc caaatcatc agtaaaactcc tgcattcctc caactaagat ttgccatact 420
agagcacct 429

<210> 8159
<211> 420
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220091b09a1

<400> 8159

aagtatcagc cattataatt gttattgata taggttataa tatgagatgc caggaattac 60
catgacatac acttgtaaga catattgtat atctgctaac atagtataac ttctgccaga 120
aattcgttct cctgcttttg aattggctta aaataaaaat aaccatagaa gtcaaatttc 180
aattaactac atctaccaga aattaaagaa aaaaaaaca ttggacattc cctccttcta 240
ttgaacatgg ttgtattacc aaccattttt ttttaaaaat catgataata aaaacattta 300
gcagtttctt atatacctga gatggctact actaaccttt tctattacaa aagatcttct 360
acggagaata aagaaagatg gaagttataa aaagagggaa gggctgttat gcattcttga 420

<210> 8160

<211> 382

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091b09d1

<400> 8160

gaaatcataa aattctatat aataaagaca acatatataa ctgtatccta tagattacac 60
acaacaattt cgagctttat tctataaatt aagaaaaaga aaatagacat gctatctttc 120
tttggaccta ccaagtagct ccaatcattt cacaactggt acaatattac aagatcagaa 180
atttcaaaca cacaattgaa gctagcacat attagtatgc tttctcaaac acaactggga 240
gcacattacc atccaaggcc aacgaaatct tcccattctc acgcaaacca ccaacaatgc 300
cacagtcaaa cctacaaaag gggcatacat ttgtaggaca ccaacctata taatatgaac 360
cttcgactgg aggctcaaga at 382

<210> 8161

<211> 380

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091b10a1

<400> 8161

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60

tttttttttt atttttgggt aaaaattatt aacctttttc taaagttgaa ggtatatattg 120
 gctaattaaa atattgttgg ctggagcaaa gaaaggcaaa aaaagagccg gggaaaaaaa 180
 aaaggaaaaa ccaaacacgg gggggggggg agttacagaa aaaaaaaaaa aaccaaggc 240
 gaacgaacag ggggaaaaaa aaaaaaaaaa ggggcggggg caaaaaaaaa aaacacaatt 300
 ttaaaggggg aggcgagaca gaaaaaaaaa atcctcccca ccgcggcggg ggaaggaaaa 360
 ccaaaggggg gggcgggggg 380

<210> 8162
 <211> 523
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091b10d1
 <400> 8162

agtatataat tatgtatagc atagataata agattcatat accccacaga aaaaaaagg 60
 atatttttagg tgccaccag gcctatactg cttagctggc caaacttcg atcagaatta 120
 ggaatgatct tgttccatct gatttagatg gaaccacct tggttattct tgtgtacctc 180
 taccttgaac ttctcttct tctgtcccct cttgactttg agaagcagat taaacttggc 240
 aaagtcacat atgacctcag cctttgcac agcaacctca tgaagctcat agggtagtag 300
 tgaattagac ctttgctgga tagtcttgat cgcattgatt gctgcatcct gaacttgagg 360
 gtcattgtgt ggcacagatt gccatccagg ttggtagacca tcctttttga caccaagatc 420
 agcagaggta aatgatggta catcaccagc aggcctgaac tcttgaggat ctttgaaatt 480
 caaccatggc ttcaccaca ccttggttc atagagcttc ttc 523

<210> 8163
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091b1a1
 <400> 8163

acccgacaaa actcgtaata taaacctcat agccattatc tgggggattt tatttttaggg 60
 tttatttaat tggacaattt tatattttat ttcattcggg gcatattaat cctaaagccg 120

ctggtgattg tgtaattgca cccaccatat ccagtgtctac gcagggctgg tcagtaggta 180
 caaaatgacc cgctccaagg atccaataga attggggggtt tttgtatgac ttaaaaaacc 240
 ctttgggcgt tttgtcactt ccacagtaga gggggggtttt gtttttttcc aagaaatttt 300
 gaagccctgt ccactcgagt tttttaagcc aagcttcagt ccccttggtt gcacaaatga 360
 gatccacttg cccactgtac acagtcacgt tgacccc 397

<210> 8164
 <211> 394
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091b11d1

<400> 8164

ggctatatcg gccctactcg gagccaattc cgatctcatt tcctttggct tcaggattgg 60
 cctaataaga aaacaaataa ttccaattca tatatgaaca tttttgcctc cttatttctt 120
 gaaaatgtgg aattggaatt ccccgaggaa ttccgatctc atttcctttg gcttcaggat 180
 aggccctaata agaaaacaaa taattccaat tcatatatga acatttttgc ctccttattt 240
 ctcgaaaatg tggaatcgga attccccgag gaattccgat ctcatttcct ttggcttcag 300
 gataggccta ataagaaaac aaataattcc aattcatata tgaacatttt tgccctccta 360
 tttcttgaaa atgtggaatc ggaattcccc gaggg 394

<210> 8165
 <211> 362
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091b12a1

<400> 8165

gggggccggg ggaaactttt ttttaaaaaa aaaaaacatg gggttatcct ccccccaaa 60
 acaagggggg aatcctggcg gtggattgaa ccggacatat cctttattgc ccctaggggg 120
 aagaaaaata ataagctaaa aagcggggcc ccgcacaaaa tttttttttt tgcaacaggg 180
 gacaaacata tttccaaacg ggtcccatat tatggggggg ccaaaaaaaaa tttttttttc 240
 ccccaaaaag gccctaagcg gggaaacttg gaaacaagca aaagctcagc ttaggcgggg 300

ggagccccc agttttgccc actaaatttg tttttgcggc cccaaaaggg aggggaccca 360
ag 362

<210> 8166
<211> 410
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220091b12d1

<400> 8166

atgcactaca cacagtacaa gtagctatca tttaatcaaa agaaaggga acgcgcgcac 60
gcacaaaaac aaaccatgat ttgctgcctt gattgcatgc gtcattggga taaagacaac 120
acgcccattgt acatctcaaa agggttggtt tatataacag ctgtctggtc tctgcattac 180
atcaacgata atggcttaca cggtccaaat cacaactcag atctctatac agcagctttc 240
aaccctaaac cgcattatct atttaattat ctataagggc caaaccagaa atatgaacct 300
ggaaggtttt atggaaaaag cactggtatg agtcttcaaa atgatgatcc gtttcatcaa 360
agatctcttc ctgcaaaagc tcttcaatga cattttccat ggaataatt 410

<210> 8167
<211> 381
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220091c01d1

<400> 8167

gcaaaatgga atttggttaa ttttacaagt tttaatccaa acatgcccta acttgtttta 60
atgaccctgc ccatagagac aagagatcgt tattaattgg tggccaagac cttttgaatt 120
tacaagatat gccattgttt tgcccaacgg aaaaaccctt taaagaataa ccctcttttc 180
aaataatcat attttcagta acaaaaaaag gggatttggga gaactactat cggggaatta 240
atcaattttc caggcggaca accaagaggg aacttaggag gatagaattc cttattctgg 300
ctcggcttgt tccatatgta aaaaaaggaa aggggggtat tttaccctt tgagcaaaaa 360
agggggtacc catgggcctt t 381

<210> 8168
<211> 498
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220091c02a1

<400> 8168

aaaaagagaa aaggagaagt gaatttttgg gaggcagaat gtgtcaagat tgattattcg 60
aacaaaaagg ttttctgtcg gtccaatatt gacaacttgg tgggaagtaa cgaattttcc 120
ttggactatg acttcttggg tgtagcagta ggagcacaag ttaacacttt taacaccctt 180
ggtgtcaagg agaactgtca ttttctgaag gatgttgagg atgctcagaa gattagactg 240
tctgtgattg attgctttga gaaggctgtt ctctctagtc tatctgatga tgagcgaagg 300
tcaaattctt atttttagt tgttggagga ggtccaactg gtgtggaatt tgcagccgag 360
ctgcatgatt atgtccaaga agatctaata aactatata caactgttaa agataaagtg 420
aaaataacat tgattcaatc tggagatcat atctngaaca tgtttgatga aagaataagt 480
tcatttgcgg agcaaaaag 498

<210> 8169
<211> 425
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220091c02d1

<400> 8169

tttattttta tttttttttt ttttttttta ctaaaacaaa tacaaaaact aatgtggggc 60
ggggaactca ttatacaaga agggcagagg acacccaac tagcaaaaaa ggtaaacctt 120
gattccctca attataggta cattaagggg aggcaataaa agtcataagg acaagcaaaa 180
acccaaaaat tagtattatt ctgggggtgaa ccattcacc caccctctcc ttttttccca 240
acaaaaaatt aaaccgctgg aggggggaaat ttcttgcga aaacaaacaa gaaataacta 300
taaacagggg cctcagtgag gagaacacca tccaattga tgaactgaga agggcttgag 360
cacacagagg cattaggggg gccaaatgtg gcaaacacaa agaagaagta aggggggtct 420
cccga 425

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

<213> Glycine max

<223> Clone ID: jC-gmf102220091c04a1

<400> 8172

ggagggcgac ccaaaaaagg taaaaaatat aatagtttag ttaattggga catttacatt 60
attcccccaa accaatTTta gatggcgggg tggccagacc agaccagacc aaaaaactct 120
taacaaggca tctaggtttt ttaaacgaaa tagggagctt ttttatttaa ctgggaaaac 180
aacaccggtt caagagttcg aaaaaattgg catataaaaa aatggtgagg ggggacttta 240
ttttttccaa gctgggggaa catattttac taatataagg gtaccaacat gggaagggct 300
tcaagaaagg tgcattatat acataaccat gcaggggtac ttgaacatgg gtttcactaa 360
gctttggata gatgactgca tacatatcaa actaaagggg ttggcgtatt tc 412

<210> 8173

<211> 296

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091c04d1

<400> 8173

gataataatt atttaacgac tctctatcat tataaattgg gttgcggaca attttacatc 60
aatcacatg ggagcaaaaa tacacaaacc ttccttcttt atttcccccc aatttaatca 120
aacacacca tggaatttac taatccccct ttttggaggg tactcttcca cataaacatt 180
ttccaacccc cataaagatt gacgagacta aactgtggca agacacttgc cttgtaggaa 240
aatcacctt ggaggcgaag gccctgata aagaaggaat gggcccatat tgaacc 296

<210> 8174

<211> 414

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091c05a1

<400> 8174

gcagcaagct ggatatatac atttaatgat gatgaaatat ttgtgcgaac agtggtatat 60
tcggcgcaac acaaatttaa aaaaaacttg cacttctatg attacataag atgcactacc 120

tgcattgacaa ctctacaaag cacctaggcg ttttagcaagc tagttgggta caacgggtggg 180
 aaacaatacg tcgacttgga aacttaacaa gagacttgtg catgtccagc gtcttaaaag 240
 caacaaacct ataagtgcac tcaatatcaa ttatgcacca gcacttaaaa ggcttttagca 300
 gttgtcacca atcagatatg ggaagaacca aatacttctg taatcatccc aggactatc 360
 tgctgctccc tcttttttag aggctgtggc agtaatcatg aatttatatt gata 414

<210> 8175
 <211> 537
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091c05d1

<400> 8175

ttcttttttt tttttatatg actctggtgt ttttttgac tgtgcctaac aatttacacg 60
 atgcacttga tcactctgca tggcgacagg ccatgatcga tgaaatgcag aggataacat 120
 tggcccatga cgcgacacat gcaccaccta ataatacataa ttttacatct ttacatacaa 180
 aatacaaaga ctttaaattt taaaaagaag aaaagagata aacagatcat cttaatgaaa 240
 tgaaacaaaa acccaciaaac attggcttga tttttgttgt tgttgttgtt cccaacttga 300
 ttaagcatga accgtttgat tgaatcactt ggacttgaag ggaatggccc tgattacgac 360
 ctggtggttag agtgctgcaa gagctgcacc gatgaatggt cccaccacaga agatccagtg 420
 ttcatcccaa ccaaggtcct tgttgaagat gatagcagca ccaagactac gagcagggtt 480
 gataccagtt ccggtgatgg ggatggtttg caagtgaacc aagaacacag cgaaccc 537

<210> 8176
 <211> 378
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091c06a1

<400> 8176

tgcaaaaaga aagaatctta ggcgagttaa aagattgacg gcaaggaccc tgttgggtcc 60
 ctggggggcga acattttccc cgatagacat tcgattgcga ctgcggctca tagccatgac 120
 gaccttaagg actaccacga gccggagcct gtgccgtttg gcggcaccca ctgtgttcaa 180

gttatgggttg ttttcagagc aaggatagca tagatttgcg gccaatTTTT tgtttgtcta 240
 cttcaccggtt ttaaccgata agggagtcgc cggcgctaag tcctatctga ataccogttg 300
 ggactcaatg aattcgattg gaccttcggc ggcattgatct tccacctctc tttctgcacc 360
 gctggcatct cattgggg 378

<210> 8177
 <211> 423
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091c06d1

<400> 8177

agttctatcg gcacattcta cgatcacata aaaattataa cccggatcta cgacctcaca 60
 ctactgcggg cgcgctcctt ttttttctt tatattactt tttttgttat ttttgattat 120
 gcataacaca taacggggga acattaatac atcacacatt acataaacca gtttccaata 180
 cagtcacaat aaaaccagga ctttaaccct aaaccctaag cctacgaatt tattgtaaaa 240
 taataacctt aaatacacac taccgtgtct ttaaaactta accctaagtt tttttgcca 300
 taagtctacg agctaacaga aagcccctgc tccaaaagat taccctatca tcaggagtcg 360
 ctccaaggct ggcttctatc aaagagcccc acgaggcatg cctcactggc atcctaaaga 420
 act 423

<210> 8178
 <211> 578
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220091c07a1

<400> 8178

cttctctctt tcaccaatca acacaaacta agttcttctt tctgttgaaa gcgatagcaa 60
 tggccacgaa tccaatcgaa gcggggaacg gcgacgctgc tcccaaccct aacgcgacta 120
 ccaaactctc cgtgtacctg caagactcgg aggagctgaa gcgagtcttc agccgcttcg 180
 acgccaacgg cgacggcaag atctccgtct cggagttgga caacgtcctc cgctccctcg 240
 gatccggcgt cccgccggag gagctccagc gtgtcatgga agaccttgac accgatcacg 300

acggcttcat taacctctcg gagttcgccg ccttctgccg ctccgacacc gcggacggcg 360
 gcgacaccga gctccacgat gccttcaacc tgtacgatca ggacaagaac ggcctcatat 420
 ccgccacgga gctctgccag gtgctgaacc gcctcggaat gaagtgtctc gtggaggaat 480
 gccacaacat gatcaaatcc gtggattccg acggcgacgg caacgtcaac ttncccgagt 540
 tcaagcggat gatgagnnca catcgcgaaa atgctagc 578

<210> 8179
 <211> 541
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091c07d1

<400> 8179

cataggaata gttttcctc gatttctaaa tatatataaa tatatatata taaaaagagg 60
 aaacgagaag aaaagaaata gcggatcata acagacctag atttattagt caagagattg 120
 tgcagcgaaa gtgcctagcc tatctataaa attcaaattcc aaagggccta atctgttttt 180
 tcttcagcat tgctagcatt ttcgcgattg ttgctcatca tccgcttgaa ctcggggaag 240
 ttgacgttgc cgtcgccgtc ggaatccacg gatttgatca tgttggtggca ttcctccacg 300
 gagcatttca ttccgaggcg gttcagcacc tggcagagct ccgtggcgga tatgaggccg 360
 ttcttgtcct gatcgtagag gttgaaggca tcgtggagct cgggtgtcgcc gccgtccgag 420
 gtgtcggagc ggcagaaggc ggcgaactcc gagagggttaa tgaagccgtc gtgatcgggtg 480
 tcaaggtctt ccatgacacg ctggagctcc tccggcgagg cgccggatcc gagggagcgg 540
 a 541

<210> 8180
 <211> 409
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091c08a1

<400> 8180

atccgcaaaa ccaatcacat tttaaaagggt aagagtatta tttccatgat aatctgattt 60
 aaaagtactc cgcaatataa acagagtata ccaaaaaaca ctcgatctac agctagtaac 120

taaatcctcc attttatgat acggataaac agccgaaaga aagaaataaa gggcaaaaca 180
 taaccctgca ttaattggcg gcacgttgag ttgagcatgc attatttgac tatgcagatc 240
 tttatgacag aggcagctcc aatacgatgc agggcaacaa ctgcatcacc aggcttacia 300
 agggcccttt ctgttgcgga cttaagagca gcttcgagaa tgacctctgt ggattctgca 360
 tcggtagcct ttgcagatcc ctgcccagt ataggaatca agcccctgt 409

<210> 8181
 <211> 634
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091c08d1

<400> 8181

gagcccgccc ggaattaccg tgccaccagc tactactcgg aggtcgctc ttgctttatt 60
 ttttctcac tttctcgctt cccaaacgcc cctctctctt cttcaatggt ccgaccagct 120
 caccgacgac cagatcgccg agttcaagga ggccttcagc ctttttgaca aggacggcga 180
 tggttgcatt actaccaagg aacttgggac tgttatgagg tcacttggtc aaaacccaac 240
 tgaggcagaa ctgcaggata tgataaacga ggttgatgct gatggcaacg gaaccatcga 300
 tttccagag ttcctcaacc tgatggctcg caagatgaaa gacaccgact cagaggagga 360
 gcttaaggag gctttccgtg tgtttgacaa ggatcagaat ggtttcatct ctgcagctga 420
 gctccgccat gtcagacaa atcttgggga gaagctgacg gacgaggagg tggatgagat 480
 gatccgtgag gccgatgttg acggtgatgg acagatcaac tatgacgagt ttgtaaagtc 540
 atgatggcca agtgaggacc attccaacca taacctaaat ttgacagcat ataaagagaa 600
 gagggacagg gcagataagt tttgatgaga attc 634

<210> 8182
 <211> 382
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091c09d1

<400> 8182

ccaaactgtt atcaaaagaa gattttccga catgcataaa cgagttgat agtttcatat 60

ttatagattt ctataaatat catatggtga tgaaggcggg taggccagtc aattgaccgt 120
ccacaggacc ttttaagcatg gcccttatag tttccaatgc gaaatggggg ccacattttt 180
aacttaggga acccatagga ggcccttgat aagggatgat gttcatacgg aaaaagagga 240
tccacggcca aactgagggc cccaaagctc aaaagatccc ttaacaaagt gatagtatcc 300
tccttttagc gacaatgtat tgtcaaccaa gcctttttta acaaatggat atgttaaaag 360
gttcccaagg gaaacattca ca 382

<210> 8183
<211> 420
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220091c10a1
<400> 8183

gaaacataat tgacatcaac acgaataaaa ccgcacaacc attgaatagt gggaaagtaa 60
caaaacgctt tacttgaagc ggacaatttc ccatttatat tgtatcacta tcgtctaaat 120
aatgactcc ataaagcaca ttacagcag caaaaaatgc acagccactg ccttttatta 180
atccataaat cacttcatac atagcactgc attactaact atgacgttca cacttcaatg 240
gctgaccaac ttaagagagt ttgccttctc ttgcagagaa tccaggaggc tgtcaaagct 300
cttcttaaac gagtccactc cttcaagttc aagctgggaa ccaacaaagc tccagtcaat 360
accaatttc tggagagcat tgtatatcc ttcagcttca gatgcatttg agtctattgt 420

<210> 8184
<211> 526
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220091c10d1
<400> 8184

cagagattat ttctgtattt tcatcaaata caacaaatac aaagctgctg catattacaa 60
gcacctaaat attttaccaa aaagacgggc ttgagaacca ttaaatacgcc ctacactgta 120
ttgagcaaat aacaaaaact ataatacagg ggtgcagcaa aaagaggtgt ttgccgtca 180
cagcacaatc tactacctgc ctggtcaatc ccttttcct ccccatgatt catcctctct 240

tgcaatactc ccagtctgac cgccatactt gtcagaattg gaataatgca ttttgattgc 300
 agccacagga tctgagaccc cactgcacga tcttcccaca agaatccccg gtcttccaac 360
 accattcatt cccatcactc ccctgctctg ctgctgtaaa cttgagattg cttcgaatcc 420
 atttcttctc tgcattctcag agaatacatc ttggcagtgc ttgacatcta ccataaatgg 480
 ttgcactttt ggaccatccc ttctaaacaa ctgataatca atcaca 526

<210> 8185
 <211> 425
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220091c11a1

<400> 8185

cacgatacaa tttaagetta tttttctaac ctcaaacttt aatgcatcat ttttctaaat 60
 tttgttacct aattaactac ttaagtatca agtacgatta cacttttcta ccattttgtt 120
 ccatctttgc ccattgaagc atacaagttg caaccgaatt tgatcattac tatgttttca 180
 cggatatagat agctctatct ctcatttacc gtcacactct aataatcagg gatggcagaa 240
 aagcgggtatc ctttagcacc cctccatgca taatatgcaa ttcgagtctc ataaaaacct 300
 gggagaaagc taaggaaccc tagggctaaa aggccatatg cttgagactt ttctcccccc 360
 atatgaccag tgaagataaa gtatgaaagg aacaaaagtc ctgtaccaag gaataacagg 420
 aacag 425

<210> 8186
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220091c11d1

<400> 8186

ctgcataaaa atactagata atcctcacat ctcaagacat tttttacata cgatggtaaa 60
 ccgtcacatt acataaaaac ttttattcca tgcataataa aacacgcaat gattttgagg 120
 gtttgaacag agtatcttagt ttggtagaca aagtaactgt tcagaaaagt tcttcatcac 180

cctgaccatc ctctctctg aggacccaca gagctcaacc tgtcaagtac tgagttgaaa 240
 tcaacggcct gtccactctc ctccatcctc tggatcacac ttgcaacatg gtcacccctg 300
 aatcccatgc tcaccagttt ctcaatcaac tcattgtagg gatgggttgcg gacgaattgt 360
 gactggttcg gatttcggac catgaggtta tgcccttgtg gngggttctg aaggggaagca 420
 cttgctgggg gatatccagg ttgagcaaaa tgagga 456

<210> 8187
 <211> 341
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220091c12a1

<400> 8187

aaacccccag gggtaagtaa aaaaacgtaa aaaacaggcc caaaattttt aaggggaaaa 60
 ggaaaaattg gggcccatct aattttgggg ggacaggggg gccctttttt tttaaaaaag 120
 gtaatttagc cctttatttt ttaaaatggg ttaaagagga cccttgggcc ggggtaaagg 180
 taccctttta aaaaaatta aaatcggggg gggaaaaggg gggtttcccc ccttaacca 240
 aaaaaaaaaa aaaaatccgg tttttgaaaa aaaaccaccc aaggggaaaa aaacaaacca 300
 ttggaagcta aaaggggccc ccaaaaaact ccggggggca a 341

<210> 8188
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220091c12d1

<400> 8188

acttagataa gtccggtaga atagataata tgacgtgaaa aaaaaaatca aaataaatga 60
 cgtatccata tataactact cagcgtatat acagtcacca aaaggaaaca attgaacgga 120
 gacaaacacc atcacatata gaaaataaat tatctcccaa atcaggtctc aggcactggg 180
 ttactttcca ctottatata tgttgtcaat ggcattctga tagtatttaa gcaactgtgg 240
 cctcttcttc ttgtatgttg gagtgataag gtcacgttcc atgtcaaag gaattgagtc 300
 aaggtgaact gcttttataa actcaaaacc tttcaacttc ttttccttcg caatctttga 360

002220 "E" 032200

gagctcttca attatgtaac tttntgctcg agcatcttca cagagagaat tgaagtccat 420
ggatatacca 430

<210> 8189
<211> 566
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220091d01a1

<400> 8189

agtcaaggcc actagtgttg tggctcaatg gtgggtccagg atgttcctct attgcttatg 60
gtgcatctga ggaaattggc ccttttcaca ttaggcctga tggcaagtca ctttacttga 120
acccttatgc ttggaacaat ttggcaaatg tactgttcct tgattctcct gctgggtgttg 180
gtttttcata ttccaataag tcaacagatc tgtatacatt tggtgaccag aaaacagctg 240
aagatgcata tacttttctt gttaattggc ttgaaagatt tcctcaatat aagcatagag 300
aattctacat tgctggagaa agttatgcag gtcactatgt tccccagttg ggtcaaattg 360
tttacgagaa aaataaggga atcaagaatc cagttataaa ttttaaggga tttatgggtg 420
gtaatgctgt tactgatgat tatcatgatt atattggcac atttgaatat tgggtggacc 480
atgggttggt ttcagattcc acgtatagga tgctaagaat ngcctgcaat tntgggttct 540
ctcagcatcc atcagtgcaa tgcattg 566

<210> 8190
<211> 415
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220091d01d1

<400> 8190

gcataatatt gatcatttca tttttgggga ttgggcaagc aatttatgga tacaaaaggc 60
ggctccatt aaatttaatg ttattaagct aacatgggga aaaaataaaa agagtatctc 120
gactccgttt tccaccagac tagaagagac acgcatctcg ataagtatca caaaagatta 180
cagaataaaa ggaacattct cttctcaact atatcttatt tggtgctgtt gctgaggtgg 240

ttggtaacca cgataccccc aataaccgcc atacatgttg ggatcctgcc cagcaactgg 300
 aacataccca ttaattttca taacccttgt gcagcatacc catagtattc accaccagaa 360
 ccagcaccac cattccactg gttcggaaac gcctgagcct gtatgtttga aagac 415

<210> 8191
 <211> 547
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091d02a1
 <400> 8191

tagcaagatc gcccctatac cagtgatcaa ggaaatattt cgaactgatg gcgaggggga 60
 cctcaggggt ccaccaccta aagtgatgca ggtggataag tctgcatgga tgactgatga 120
 agaatttgct agagaaacga ttgctgggtg aaaccaacg taattaaaga tttttgagga 180
 gttcccacca cgtagcaagc tagatacaca agcctacggt gatcatacct gtataataac 240
 aaaacaacat tttggaacct aacttgggtg ggctcactgt agagcaggct atccagagca 300
 agaagctgct catcttagat caccatgact atctcattcc atatttgagg aaaataaatg 360
 caactaccac aaagacttat gctaccagaa ccatattttt cttgaaaagt gaaggaactt 420
 tgacgccatt ggccattgag ttaagtaagc cggatcctca aggtgaaaga aatgggtcct 480
 gttagcgaag gctacgtgcc tttgagcgga agagtgaagc taatatttgg tattggaaaa 540
 gcctatg 547

<210> 8192
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091d02d1
 <400> 8192

aagataaaga cttcaaagtt accatattat tatttcacat ggttttgtaa ttcttagaaa 60
 caaggttacc attttttatc taaattgggc accagcagaa agaccctaca ctacagtgga 120
 acatggtaca gaaatccaaa agttgcatcg aaacaacat gaaggaaaat aatgaagcta 180
 ttcccagatt ccgacctcca tgaagccatt ttcagtggca cagcccctaa acatgccatt 240

gcaattgaaa ccataagcca cttccccagc gttggacaca gcaatgagac cagccatccc 300
 ttcategaga cgggtgcttga tcacaaaatc cacggcttct tgaagcttca agcctttgta 360
 ttccaacacc ggtggcacct cacgcgccag cgtgccacgt atgatggcct cgcctttacc 420
 cgtgcac 427

<210> 8193
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220091d03a1

<400> 8193
 cccacaaccg aggtaaataa gatcaatgat aaagacgata gacacacatc agaacacaga 60
 gaacgataag acgtgataga caaacaatct aagaataaga tatatataaa aaactctaaa 120
 aagaaagcgc tcgagaacta cggggaaaaa ccnnaaacg gacccaaaca ataaaaaaca 180
 atattacaca ctcatTTTTca aagattatgg aacaagatag gatacagaag gatgggCGGA 240
 aacttggggg gtgcacaaag taaaatgaag caagaggata agtaaggaag gaggacggat 300
 gaagaaaagg agaaaaaat tgggtggtgaa aaatccaaac gataaataaa aattcgtaga 360
 ggaagtcccc accacgtagc aagctagata cacaagccta cggggaacat acctggataa 420
 taacaaaaca aacatttggg acctaacttg ggtgggctta ctgatgagca ggctatccag 480

<210> 8194
 <211> 73
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091d03d1

<400> 8194
 cctaaaggaa ccggaaggcc cttcaatat atatattcat ggggaatttga tctaaaaaaa 60
 aaaaagcaca ggg 73

<210> 8195
 <211> 499
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091d04a1

<400> 8195

agttattccg atattcggac gcatcaactt gttatgaaat cacattgata gcctctactc 60
 gtgtcctagc tegtctaaga gctagatttg cctcaattgt ttgtctcttg ccttcgcgct 120
 tattcaaatt agcttctgct atttcaagag tttgctgtgc ttcttgtgga tcaatgtcac 180
 tacccttttc cgcattcatt actaaaacag tgatctcatt attgtttatt ctagcaaaac 240
 cgcccatcag agccatcggt aaccattggg ctttaagaag acgtattctc aaaataccta 300
 tatctacggc tgtggcaata ggcgcatgat ttggtaatac tccaatttgt ccgctattag 360
 tagataaaat gatttccttc acttccgaat cccaacaat tcgattgggg gtcagtacac 420
 aaagatttaa agtcatttct tcaaattgct ctccatttct aagttcgtag ctttcgcagt 480
 agcttcatcg atattacct 499

<210> 8196

<211> 468

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091d05a1

<400> 8196

ccagacaagg aaagattttg atatcggggg cacgcaaccc ctttttccaa aatcagattc 60
 agccgggtgc tagtccaata aaaacaacta atagaaaaga gatctataaa tattaataat 120
 ctacattgtt attctagaat atacaatgca tcttcacaga atatttgcaa gggctagatc 180
 acttcaaagg agacctcgac aattctaaga tgcttcttca ataagacctt gaaaaaatta 240
 acttcattcg atgagaagag gtagagcaaa atggattgga gatggattta gatttccaga 300
 ttcatthttg agccaatctt ggggtgcatat aaaagcctct cgcgtgtccg ggttttagtga 360
 actacgagaa gaatctagca ctctgcccc agtgctaaat gccaatcttg gcgccagagt 420
 tgacattgga gtcccaagaa catcacgtgc catcatagac aaaattgg 468

<210> 8197

<211> 533

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220091d05d1

<400> 8197

gaaatcataa aattctatat aataaagaca acatatataa ctttatccta taaattacac 60
 acaacaattt cgagctttat tctataaatt aagaaaaaga aaatagacat gctatctttc 120
 tttggtccta ccaagtagct ccaatcattt cacaactggt acaatattac aagaacagaa 180
 atttcaaaca caaaattgaa gctacacata ttagtatgct ttctcaaaca caactgggag 240
 cacattacca tccaaggcca acaaaatctt cccattctca cgcaaaccac caacaatgcc 300
 acagtcaaac ctacaaaagg ggcatacatc tgtaggacac caacctatat aatatgaacc 360
 tttgattggt gtctcagtaa ttctaaagta atcatccctg cctgatgcag caatgagcct 420
 ccttccactc tcaactatcct tctcagccaa attccaattt gtgccctgca cacatattga 480
 ggcagctgag aagtcancct gaagtccta ttcaccttca caacatcatc ttc 533

<210> 8198
 <211> 538
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091d06d1

<400> 8198

gaaatcataa aattctatat aataaagaca acatatataa ctttatccta taaattacac 60
 acaacaattt cgagctttat tctataaatt aagaaaaaga aaatagacat gctatctttc 120
 tttggtccta ccaagtagct ccaatcattt cacaactggt acaatattac aagaacagaa 180
 atttcaaaca caaaattgaa gctacacata ttagtatgct ttctcaaaca caactgggag 240
 cacattacca tccaaggcca acaaaatctt cccattctca cgcaaaccac caacaatgcc 300
 acagtcaaac ctacaaaagg ggcatacatc tgtaggacac caacctatat aatatgaacc 360
 tttgattggt gtctcagtaa ttctaaagta atcatccctg cctgatgcag caatgagcct 420
 ccttccactc tcaactatcct tctcagccaa attccaattt gtgccctgca cacatattga 480
 ggcagctgag aatgtcacct tgaagtcctt attcaccttc acaacatcat cttcttct 538

<210> 8199

<211> 581
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220091d07d1

<400> 8199
 aacacggata atttatttta gcatttcgtg taccggtagt cgaagaaggt atcgtgccct 60
 taagcattct cggtataata tacaatacaa tgatgagcag ctagcagcac taaatggctg 120
 atccagagag caagatggct gaagcattcg ccttagcaat cttgagtgtt tttggattta 180
 gaaatgggtat cagtctcctg taagcatgta cacatccatc catgttagat gaacaaagaa 240
 cctggaaagg ataagccttc taaaaaattg ctattaatta tggcattact ggctgataca 300
 atcaaggcgg tgcaccaagc gattcaacag atattttgac tcacggtgtc taccttttcc 360
 gagtaaagat ttaaaaacac gaaggtaggc aaaacgggac tgcggacttc ccttactcca 420
 tgccttcagg aattttacag catctactac ggacccaaac tttgaaatat actacacaaa 480
 gggttcactg aatggagtaa atgtgtgtga aatcatcaaa caccaaaggg caagtgcctn 540
 ctcaaatttc ccaatttccc atagggttatt catcagtttc a 581

<210> 8200
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091d08a1
 <400> 8200

aaattaatct cagatttata aatatatctg atataaattg ttcacggact cataattgga 60
 agtttacaat ttacatgatt aattaccaat gtgacttcta agacaacaaa gataactcct 120
 ttctcaatca atcaacagta tttatttacc ttacccatt caaatccaat taatcatgaa 180
 ccaatcactc cactccatct tcaaaactcc caaataaagc ctaacctaag agaagaaaag 240
 tgtaattacc cccatgaaac tatgggtcga agtttcgacc atatcaaaca attctcaact 300
 caaggtttgg atatccagct cgagctttgt gtcgttcaaa tagatcttga agcgcttcaa 360
 caaattggct atgtattctg gccacctcct caggagttgg ctcgtaattt tt 412

[illegible]

<400> 8201

<210>	8202
<211>	450
<212>	DNA
<213>	Glycine max

<400> 8202

3682

<210> 8203
 <211> 392
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220091d09d1

<400> 8203

actaatacaa atacaaatac aacatattcc tttgaactca tcatacatga tgtgcagagg 60
 acacaagttc tagcaaaaaca ggtaaaacct gattccctca cttatagtta cattagcaga 120
 tgcattaaag tcataaggac aagcaaattcc caaatattac cattattctt ggggtgaacca 180
 ttcacccac cctatccttt tttcccaaca aaaaattaaa cggagggttg atgaaacttc 240
 cttgcacaaa catactagaa ttaactgtat acatggcctc agtgagggtga acaccatccc 300
 aattgatgta ctgagaaggg cttgagcaca cagtggcatt aggtgtgcca catgtggcaa 360
 acgcagtgca gttgtaaagc gggtcttgcg at 392

<210> 8204
 <211> 418
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220091d10a1

<400> 8204

atcatccatg caaaaactgt gattacttcc tgaatttaca ttaaatgcat ctaaaccctta 60
 aataggtatt tgtacattga atcttcaatc tatgcatgac aatagaagta gccattttac 120
 aagctttcac caacataaac actccacact aaaaccattt aagcgttaca acttagttaa 180
 aaaggtttgc caatgtttct ccaaggcttg caatcataga gttgttccaa cacttctcac 240
 ttgggagtga aagcagcaaa aatagtagca tggccaggat ctgcaagggtg agcaaagagg 300
 ttgtcaatag gaccagtgcc agtgtaaagt tgctggaacc atgcccccat cacagccaac 360
 atggccaacc tccattctt gatctcctt gttctcaact ccttgatctt ctcaggag 418

<210> 8205
 <211> 515
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220091d10d1

<400> 8205

agtatataat tatgtatagc atagataata agattcatac accccacaga aaaaaaaggt 60
 atatttttagg tgccacccag gcctatactg ctagcgtggc caaacttccg atcagaatta 120
 ggaatgatct tgttccatct gatttagatg gaaccacact tggttattct tgtgtacctc 180
 taccttgaac ttctcttcct tctgtcccct cttgactttg agaagcagat taaacttggc 240
 aaagtcatca atgacctcag cctttgcac agcaacctca tgaagctcat aggggtactag 300
 tgaattagac ctttgctgga tagtcttgat cgcattgatt gctgcacccg gaacttgagg 360
 gtcattgtgtt ggcacagatt gccatccagg ttgggtgacca tcctttttga caccaagatc 420
 agcagaggta aatgatggta catcaccagc aggcctgaac tctaggagtt ctttgaattc 480
 aaccatggct tcacccacac cttgggttca tagag 515

<210> 8206

<211> 490

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220091d11d1

<400> 8206

gaggaaatgc tcagtaatag cataaattgg gtacagcttg ccatattcat agtatataag 60
 ttgcacagtc gtgcacagtt caaccgctgg aaagtccctg ggatcaatat caaacacaat 120
 tgaagtgcac tgaccaacca gatcatggaa caaattgctg caacttatag aaagactaac 180
 caggaaatta cgaactctct aacagatggt tgtaaactta agagaccatg gcattgggtt 240
 catcttcac agcttctcct gtttcattga acatgtactg actttgggtac tccattaggt 300
 actgtgttga tcttttgaca tccaaaaaca gattgtaaac ccgatttata tcatccaact 360
 ccactgtctt ccccttttgc ttttggcatg ccaatgcagc tgctgtgatt agatgaatag 420
 catatctcaa agatgtttct acacctatct tgggttaaaa acactttgca ctttactca 480
 tgtctacgtc 490

<210> 8207

<211> 366

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220091d12a1

<400> 8207

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aaaaaaggcc aaaaaaacctt tttttcaaac aaaaatattc ctttagggg ctttaaccca   60
aaggcaacag gggcccaaaa aaaaaaatcc ctttttttct tttttgggtt cccctcaaac  120
cgacccccag aaaagccttt atgggaaacc cggggggttt ttttacaact aaacccaaca  180
gggggggggg ggtttttggg gtttttgggc cgccctagtt actttccaca atcccctagt  240
tcttgggggc caaccttaaa aaaacaattt ttcccatgc ccagcaggaa gggggacctt   300
ttttttaatt aacccccaaa actggtcccg ttaaacgggt aggggttacc accaaccttg   360
gaaaag                                           366

```

<210> 8208

<211> 397

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220091d12d1

<400> 8208

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aaatcataat gcataataga gatcatttca taaataagta ttcagcaagc aatttatgga   60
tacaaaaggc ggctccgata aaatttaatg ttattaagca aacaagggga aaaaagaaaa  120
agagtagcag agtcgggttt ccacgagacg agaagagaca cgcaactcga taagtatcac  180
aaaagattac agaagaaaag gaacattctc ttctcaacta tctctatctt gttgctgatg  240
ctgaggtggt tggtaaccag gataccccgg ataactgcc aacatgttgg gatcctgtcc  300
agcagcagga gcatacccat aattttcata accttgtgca gcatacccat agtatccacc  360
accagaacca gcaccacat tccactgggt tggatct                                           397

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<210> 8209

<211> 484

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220091e01a1

<400> 8209

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attaaaagaa attacaaggg gtgatttttg tctgctaagt tgtaaaaaat atgtataata   60

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ggattggggt gatgtgagcc gttagatctt gtgagaaatc gacggttgat atgtatgtat 120
 attgcggtat aatgaagcga gttgtatgtg attgcaggct gtacagtggg gagaccagaa 180
 gcaggcaccg ctgaaaggat aagctaagaa aaccgtgggt tgcattgtaa tattgtcgtt 240
 tttcgttaag cacctgccac gtttgaatct actactacca ttatgcgtcg gaaattaatt 300
 gctctgttgc tgactcaaata atatattact agcgtgtttg attttgagca agtgaatgta 360
 aaatgctaaa taattaccgt aattagcatc agtatgctat gttttgttaa gccagatctg 420
 ccttcaactt tggcaattgg ttaatctttt tctccctctg ttaaatgatt aatatatatt 480
 aaaa 484

<210> 8210
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220091e01d1
 <400> 8210

aagtatcagc cattataatt gttattgata tagggataaa tatgagatgc caggaattac 60
 catgacatac acttgtgaga catattgtat atctgctaac atagtataac ttttgccaga 120
 aaatcgatct cctgcttttg aattggctta aaataaaaat aaccatagaa gtcaaatttc 180
 aattaactac atctaccaga aattaaagaa aaaaaaaaca ttggacattc cctccttcta 240
 ttgaacatgg ttgtattacc aaccattttt ttttaaaaat catgataata aaaacattta 300
 gcagtttctt atatacctga gatggacttc actaaccttt tctattacaa aagatcttct 360
 acggagaata aagaaagatg gaagttataa aaagagggaa gggctgttat gcat 414

<210> 8211
 <211> 359
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220091e02d1
 <400> 8211

tttatttact tctcccttta aattattttg cacaatagag agcacttgat atttggggag 60
 gggggaagca aaaaaggat acaaaaggcg ggccccaaca aatagaaagt gattaagcac 120

acaaggggaa aaaagaaata gaattgcggg gggtcggaac cccacgaaaa cgagaagaga 180
 caccacaagt cgatgagaat gacaaaagat tacagaagaa aaggaacatt cccaactcaa 240
 ctatatccaa ttagaagacg atgcagaggt gggaggtaac caggagacac cggataactg 300
 ccacacatgg agagaaccag tgcagccacg ggggcagaca ccaatattcc agtaaccgg 359

<210> 8212
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091e03d1

<400> 8212

aatagtcaaa taatattagt tcccataata attaaggaaa attcaacatt tacatcgcat 60
 actccattga aatcacctct atgtaagtaa ttatgaacta tgaacatctt ggtaattcga 120
 accagggtga actccaatca tcccgaattt aggaggcaac aagtacaact tattttttctt 180
 tcaggggagt ctcaatatct atcacaaacc ggtacttgac gtccctattg atgagcctct 240
 caagagcttc attggcatac tcgattggaa ttacctctat atttgggtga atctcgtttg 300
 cagcacagaa gtcaatcatc tcctgaatat cttttgtacc acctgtaaca cttccggcta 360
 cagtctttga tcctatatta aggcttgcag ggctgaattt gacttgactt ggga 414

<210> 8213
 <211> 498
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091e04a1

<400> 8213

gacaataact atcttcttcc aaatataaaa aaaaaaaga aaaaggaagg agataggaaa 60
 gggtaattg aatccaaaaa aaaaagaaga gaaaaacaaa atgggcaggg tttggacttc 120
 gatgatagca ttgttgcttt gcctgatgac atcatcggtt cggggcgagg acccttacat 180
 ttactacaca tggaacgtga cctacggcac cattgcccc a ttgggtgtcc cccaacaggg 240
 taccctcatc aatggtcagt tccccggccc cgaaatcaac tccaccagca acaacaacgt 300
 ggtcatcaat gtcttcaaca acctcgatga gcctctcttg ttcacatggc atggtgtcca 360

acagaggaag aactcttggc aagatggcac attgggtgcc cagtgcccta tcgccccagg 420
 caccaactac acctaccgct ttaggttaag gatcaaattg gaacttactt ctactaccg 480
 accaccggct tgcaacgc 498

<210> 8214
 <211> 70
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091e04d1
 <400> 8214

gagtaaaaca cctattatta tataaggggt gggggaaaca ttaatatatta caccagcttc 60
 taccaagcta 70

<210> 8215
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091e05d1
 <400> 8215

gaagacttaa taataaaaca ctccagagtt tcatattact catcccatc ttagggaagt 60
 tctggagtat atgtcaacat tgtaaagac caagaatgta taaaaataag aagaagaatt 120
 ttaagttata tatatatattg gctaaccct acttgataat gaaagcttca ttatttgagt 180
 caaactttga tgccttcatt ttgtttgagt ggaaacatag gttctgagag atggtgactg 240
 agtgagaaca tcaggtgcaa tagtagtggt ctgtgctcca ctcttctgct gcattctcct 300
 cctagcaagg taccctctca cccaaggcgt aacatcctcg ttgactttga tcatgatgaa 360
 gaaaatgatg cggtagatca caatcatgct gaagatcaca ctcaggttta tccactttga 420
 tctgttgaca tcaatttgga atactttctc caagatgtat 460

<210> 8216
 <211> 555
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220091e06a1

<400> 8216

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gggttttagc gcagcttctt ctagatttaa ggaagatggg taaggaaaag gttcacatca   60
gtattgtggt tattggccat gttgactctg ggaagtccac taccactggc cacctgatct  120
acaagcttgg aggcattgac aagcgtgtta ttgagagatt tgagaaggaa gctgctgaga  180
tgaacaagag gtctttcaag tatgcctggg tgcttgataa gcttaaggct gagcgtgaaa  240
gaggaatcac aattgatatt gccttggtga agtttgaaac caccaagtac tattgcacag  300
tcattgatgc ccctggacac agggatttca tcaagaacat gatcactggg acatcccaag  360
ctgactgtgc tgttcttata attgattcca ctactggtgg ttttgaagct ggaatttcaa  420
aggatggaca gactcgtgaa catgctctgc tttcattcac ccttggtgtg aaacagatga  480
tttgttgctg taacaagatg gatgctacta caccanagta ctccaagggc cagtatgatg  540
aaatngtgaa ggaag                                                    555

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<210> 8217

<211> 289

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091e06d1

<400> 8217

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gtgggttattg ttgtgttttag ttttttttgg aaccgcaaag tagggaggac attgaaaacg   60
caagccaact acggagggga aaaccctaa aacatggtgg gcttagaaaa aggggggagcg  120
ggggtggtca aaagcccagc ccattaaacc agaatggtaa aaggggtttt ggccccgggt  180
gtcaaaaacc caattatggg aacaaaattt gggaaatgat gggggggact ttaaactttg  240
gccgaaaaac aagctcccta aaaacgagga cccaagggcc agaaacca                289

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<210> 8218

<211> 458

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091e07a1

<400> 8218

ccgttgctta cttcctctc caccgctggc gcgaagaat ccgcagccac acccctctcc 60
acgtcgtcac tctctcogag atcgccgcca ttttctccct catcgctcc ttcattctacc 120
tcctcggctt cttcggcatc gacttcgtcc agtccttcat ctcacgcgcc tccaacgacg 180
cctgggacct cgacgacgcc gttacagatt ctccctcttc ctctccctct cctctctccct 240
cgcccgcaat taccaaaatg ccttcacggg atgcctcgat tatattatcc tccgaggatg 300
acgaggagat tgtaaaactcc gtcgtggaag gcgtcacgcc ctctacgcg ctcgagtccc 360
gcctggggcga ctgtcgccgc gccgcgggga ttcgacgcgc ggcgctgcag cgctgacgg 420
ggcagtcgct tgagggcctg ccgctgaggg gtctgact 458

<210> 8219
<211> 486
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220091e07d1
<400> 8219

acccttaaac agaaatacat tcattaatta gataaagact tgagacaatg ggatctcaag 60
cttaattgac gggcactagc ggacaagaga atattcatca acccattcgg ctacaatgat 120
agatctgcta agcatattat atagggggaa aagaattaga atataacacg tcaaattgtct 180
tggttgagga gaaaaaaagt gttaacaccc actgaatggc tcggcagaag aagcaatgaa 240
aagaagaaat gatccagaag gggacagggg agatctagag tataactcta ctttctctc 300
tgcaaataat aaaagatcta aacagacagc aatgcatagc caaacgtgga tgccaacaat 360
ctaattctaat gtttctccat tttccttgcc taaatccgct taccctcaat ggatttattg 420
tagagtccag aattaatgac tgcaaccacg ttctgacct caagatgatg atattctggc 480
tacatc 486

<210> 8220
<211> 394
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220091e08a1
<400> 8220

ggcgccaaac tattatctca aaatgatatc atttagttgc aaagttttat taaacaataa 60
gagtttattt tgggacatat ttgctactgg gaagattttg ataatttggg acaagcaaag 120
ggcgaagggt tcaaatcatt aacctgggca aaatctgtca tttcaaaagc ttatttttca 180
agaaatatag ctcaattcaa cccaaagaga tattttgcca aagagattgc tgattccctt 240
tccaggatca ctttgtttta caatagactc tccaaccaat atagctttaa caccagcttc 300
ctgaacatag gcaatatcgt ccggggtaaa gagaccagat tccccaacca taattatgcc 360
tctctcgggg attattttgc ctgctctcc ttca 394

<210> 8221
<211> 178
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220091e08d1
<400> 8221

aaacagggat ttttatcttt ttattattgg tataggtaaa aaccactgca cgataccaca 60
aataatggca aagaaataac ctgtaccctt actatgggca taaattaatt cctcctgaat 120
ttattcagct aggcttttct gagtagacca gaacattgaa ccagttgaaa atcagtat 178

<210> 8222
<211> 452
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220091e09a1
<400> 8222

ctttatctga atgggatcaa ataggcacca taactcacgt tcccacaatc tacttctacc 60
gtcccacctc acaagacaaa gacaacgtta acaccgttgc ttccaccttg aaagacgcat 120
taagcagagc cctagtgccg ttttatccac tagctggtcg tttacattgg ataaacaagg 180
gtcgtttaga gcttgattgc aacgccatgg gggttcattt cattgaagct gaatcctcac 240
taaccctaga aaatctcggg gacttttcac cctcttcaga atacaacaac cttgtcccca 300
acgtagacta caccctccca attcacgagc taccogtggg tctcattcaa ctaactaact 360
tcaagtgtgg tggtttttagc attagcttaa atacttcaca tgctgttgcg gatggaccaa 420

gtgcattgca cttcttgtgt gagtgggcaa gg

452

<210> 8223
<211> 429
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220091e09d1

<400> 8223

accataaaa agggggcact aacacataaa attataggac tgatccaaaa ttcaatatgc 60
ggcccatggt ctaattccat gactaaaact gtaaagctca aatatactat cctcctaaaa 120
ggattagatg ttgaaatcca agttattcca atgaaagaca aactttttcg agtgatagtc 180
ccttggtatc ttaaaaggag cattattcaa aattgaagct acacttctgc gggcaaacca 240
tggaaccta ctaacaagga cagtatccaa gaaggagcaa tggattctaa ttaggcatg 300
agtaagccaa tgccttgtag tgaaaaagct tttctgcggt caagtccaac ttattccttg 360
agaactcatc aatgggaagt ccttgaacta ttgtgcattc cccattggca caagtgcacat 420
ggaatgaat 429

<210> 8224
<211> 427
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220091e10a1

<400> 8224

aacagaaatg cagatacatt ctttttgtaa taatttatat acaatattga tattgtttgc 60
atcaaccaa aacaacaaac cggtacatga tgcaaggcat gaaaaaccgg tatacattca 120
aaatatagaa agcaaaaaaa caaaaaactg ctaactagag aagtaaaatg ccgaggccag 180
tagttttggc ctttttcttc cttcaaagca aatcgtgtta tgcttcggta ttacaaaaac 240
atatcactgg aaaatttcct aggatgtcat aaacctctat agaaatcaac aacctcatat 300
aatgatattt taggcatata aagttcgcat tgaaaataga ggactagag tagcagtatc 360
ttttgatagc aatcaccaag ggaaccatct ccaaacagtt gtcatggatt ttcattgttg 420
ataaggg 427

<210> 8225
 <211> 553
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220091e10d1

<400> 8225

aattcatcaa catcaaatca atcactactt cactatataa ttggtatttg tagcactaat 60
 ggcaatgcaa tacttcaaga attgtggaag aaaaatcccc ttctttttat acattaatcg 120
 tttccttcat tgtctcaaat cttcaaatcc attaacttga catcacatca ataactcctt 180
 tgtgagatat tcatcgagct gagagcatag aaatggaagc agtagcatta gatgtggagg 240
 aaccagttga ggtagaggtt tctgcccagag tccttaagtt agttttctaca aaaacaggca 300
 tagaaggcct tatttgcccc agtgagttct tgcttttgag aaaagctact atttcagaca 360
 ttgttggcct tgcagcagct gatgcttgag tgcaaagcaa agcaatctct atgattttct 420
 tcatttcttc tgcacatag tcttcagggt ccaacaatgt cttgtcaacc aactccaaat 480
 gcatatcttg cacgtatagt ttccatgccc tttgaangan gaattcacca tcagtatctg 540
 gcctcaattc act 553

<210> 8226
 <211> 380
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091e11a1

<400> 8226

ctggaccttg ggaatttggg ggattgtggg acataaaaaa ctcaccatgg ggggaaccgg 60
 caaaatgccc cacctggggg tggggaaagc ataacggcat tcgccctagc ccaagtacaa 120
 ccgtcaccga aaccctaactt ccgaagaacc taaacggcaa gccctaacc caaggccggg 180
 cgccgccttt ggggctgccc ggggaagccc ccaccaagg gatggggggc gacaccgctg 240
 gagctaccac agctccgacc aaaggcccaa aagggttagct ggaaccgccc cccgaggccc 300
 aagcgggtga cccggcgcaa actccccaac gttcaaaaaa gaaccatgct tgcttgggaa 360
 ttggaccggt gacaaaggaa 380

<210> 8227
 <211> 470
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091e11d1

<400> 8227

caaagcagtg tgtgtaggcc tactttatat atgcaacatc aacaaactaa gctaagaaac 60
 tgcccttttt tccttctctc tttatctccc aaaaaaaaaa accaattaaa gaatatctta 120
 gggtagctaa aatacaattc agcacatatt tctgcattag tctcttttta tgtttcaatg 180
 cttaatgaca taagcattgc tttcttcgtc ccatatttct ccatttggca accactttgt 240
 gtgctttcaa atatagaacc ctgctcccc tccgtgtcac aaggcaagaa ttgcagggca 300
 acaatatgca tcattgcaa tagtatact ctgcttaaac ttcagcaaga gatactacat 360
 tttggcttca ccttctcttt gctaactgga atgccctctt caagaaatga tttgcagctc 420
 tgtcatttct actgcacagc accctcagta ttgcgtttgg atctgaccta 470

<210> 8228
 <211> 429
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091e12a1

<400> 8228

cttacccaaa accataaagt ttgcattaaa ttttggggaa acatgatatc catctcaaga 60
 catattaatg aacacatgta atagccttaa atgatacaaa ctaacagaaa tcttaaatat 120
 aaatgttttt agagtgaatc aacacacaaa attaaactaa ttaagattac ttaataatct 180
 atcttgctca tcatgggtcta ggcttcattc ttccttcatt ggccatcttg aagagctggg 240
 cttgagcttc tgcggccttg ttggagttga gtgaaggcca caaacctgtc cctgacttgg 300
 ttggtagtgt aagggaactt gttgttcacc atggagttga ggaaggaagc tgtgccttct 360
 ttgtagagtg ctctagccc atcaattctt gtgttggaag gggcttgtgg taagctcagg 420
 ccaggactg 429

<210> 8229
 <211> 465
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091e12d1

<400> 8229

aaaataatag cagtttcata ttgtcttccc tacaacaac aggttacata aaaacggaaa 60
 caaacagaac cagttttata gaacagtaat ggaaactaga tctagccgga acagaaccat 120
 cccctcaaaa gagacaatca accggcaaca ggaagttgcg gcatgttata catcttcaag 180
 ccaccgcaat acattaccaa gttcaaaatc acatatcatg ttggccatac tcctcctcct 240
 actcttcctc ctcatactca tcctcatcag cagtggcatc ctggtactgt tgatactctg 300
 acacaagatc gttcatgttg ctctcagcct cagtgaactc catctcgtcc atgccttccc 360
 cggtatacca atgcaagaag gccttcctcc tgaacatagc agtgaattgc tcaactactc 420
 tacggaacat ctctgaatg gaagtagagt tgccaatgaa tgttg 465

<210> 8230
 <211> 476
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091f01a1

<400> 8230

gaacattcaa ttgcatgctt gcttgtacaa agcgccagtt agttcaaagg agggaggctt 60
 agaattgcct gagctgtggt cagccagact gatcaaagt ccttattggt tgtcgagttc 120
 ccaagttgga gtttatggaa agccagcccc ttaagatttt actgctgatt atgaacactg 180
 gaaacgtgta gtatccaagt cttatctaga cgggatggga attaaatggt caaatggacg 240
 caatgtcatg gatatgagat ctatctatgg aggatttgct gcagctttga gagatttgaa 300
 tgtttgggtc atgaatgtgg ttacaataga atccccaaat actcttccta ttatttatga 360
 acgaggtctc tttggaatat atcatgattg gtgtgaataa ttaaagacct attctaggac 420
 ctatgatcta ctcatggtga acatttgttt taaaagttaa gaaaagggtc aatttt 476

<210> 8231
 <211> 405

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220091f01d1

 <400> 8231

 atccgcaaaa ccaatcacat tttaaaaggt aagagtatta tttccatgat aatctgattt 60
 aaaagtactc cgcaatataa acagagttaa ccaaaaaaca ctcgatctac agctagtaac 120
 taaatccttc attttatgat acggataaac cgcagaaaga aagaaataaa ggggaaaaca 180
 taaccctgca ttagttggcg gcacgttgag ttgagcatgc attatttgac tatgcagatc 240
 tttttgacag aggcagctcc aatacgatgc agggcaacaa ctgcattacc aggttttcaa 300
 agggcccttt ctgttgcgga cttaagagca gcttcgagaa tgacctctgt ggatttttga 360
 tcgggagcct ttgcagatcc ctgcccagc ataggaataa agccc 405

<210> 8232
 <211> 136
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220091f02a1

 <400> 8232

 atcgggtgatc tgcagtactg gatgggtctag aactatttct atacctgctc tgctcacacc 60
 ggcggggtaa cttgggttaa agttattcaa aacaagcaaa ctactcaatc tgaaggtgat 120
 gggttcattg agttta 136

<210> 8233
 <211> 449
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220091f02d1

 <400> 8233

 gtgagaaaac agctagccaa gatcaaagt cctctacttg tgatattcag ggaggtagag 60
 atatgcactg tcagaattcc attagcaatg ctggccatca gctccctatt actgggaatt 120
 tatcagacca tgttgatgct gttagcattc tccagggata tccctttcaa gttcctttga 180
 agaaagaaat gaatggcgat atgaattgca gcagttcagc aactgaattg ccttttctgc 240

cccataagat tgaacaggat gatgatcata tcaaaacatt ccagtcgtca gattcagata 300
 aaacatccag aaatgggtgat gtgaaactgt ttgggaagat actaaccaat ccttcaacca 360
 cacagaaacc taatgtgggt gctaaagggg gtgaagaaaa tggcacccat catcctaagt 420
 taagcagcaa gtcttcta ctgaaattt 449

<210> 8234
 <211> 394
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091f03d1

<400> 8234
 acccgacaaa actggttaata taaaccttat agccattatt tgggggattt tatttttaggg 60
 tttatttaat tggacaattt tatattttat ttcattcggg gcatataatc cctaaacccg 120
 ttggggattg ggtaattgca cccaccatat ccagtgtctac gcagggctgg tcagtaggta 180
 caaaatgacc cgctccaagg atccaataaa attggggggtt tttgtatgac ttaaaaaacc 240
 ctttggtcgt tttggcactt ccacaggaga ggggggttct gtttttctcc aagaaatttt 300
 gaagccctgt ccactcgagt tttttaagcc aagctttagt ccccttggtt gcacaaatga 360
 gatccacttg cccactgtac acaggcacgt tgac 394

<210> 8235
 <211> 319
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091f04a1

<400> 8235
 tttatttttt tttttttttt ttttcttttt attatttttt ttttacattt ttttttttta 60
 ttgggggtat tttgggggtc ttcccccccc caaagaacgg gaaaatttct ttatttaata 120
 ttacccccca caatccggtt ttttttggtta agagagggtta aacaccctta aacttttggc 180
 ttgggcacaa ccggaaacac ggggaagggg ataaaaaaaa ccttggacac cccctggccc 240
 gtttgtggcc cccaccaacg gggccccccc ctttttccca tctaaagggt aaaaaggag 300
 ggggccccat ctccctctt 319

<210> 8236
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220091f04d1

<400> 8236

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gggcccgcagg tcagtactgn tnncaaaccg ttggagaaaa ccccgcacag ctactatcgg 60
ggccgcacctt tttttttttt tttttttttt tttttttttt tttccactt tttggtttgt 120
aacctatatc attagccggg ggataccttt ttgaaataaa atgccatttt atttttcccc 180
aatccggggcg gttatcctca gcccctgaga aggggtaatc cccccaccct tccagggata 240
cacaagggttg gccctttgcc caaacgaccc cctacaatga tccattagaa ttggggcttt 300
tttttactta aaaaaccctt tggttggtgt gcccttacac agtagagggg ggcccagaat 360
ttctccaaaa aattttta 378

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<210> 8237
 <211> 526
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220091f05d1

<400> 8237

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aacataaata attgcctgta aaacaaattc cgaaaaaata ttttggagta acacatagta 60
gagtcgttgt atatatcgta aaatcaaact gtacacaaat ttgcagaaat cacatgtaac 120
aaataatcgt cagtgtaaaa caaattcata taccaacatg catgttgtaa aggtggcacc 180
agttaaagaa ttgtgacacc tgtgaagagg tattgatgtg tgtatacttg catattccca 240
tctcccatgg atttggacat ttggtcgagt gtatacttgt taaaaatgat gccaaaattc 300
accttacagg gatatacaaa gttgtaaagg tgaattcatg ctatttgata tataacttca 360
ctggcttcag agcaatgggtg tcaattcata acccaattta cagtccacaa agctagcata 420
ataagctctc aactgtcagg aacctgtctg cgatggaaga agaggtggct gtgtaccttt 480
gaaaagggtg caagctctgt tgggtcgaca accaatctta accact 526

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<210> 8238
 <211> 468
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220091f06d1

<400> 8238

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gctctttttt ttttttatct gctttttttt tttttttttt tttttatttt tatcaaattg   60
ggggaacctt caaaaaaggg cacccataat aatgaataaa tatacctgat ttacaaattc  120
ccaaagattt ttccttaatt tgctccagat ttcatttacc tcgggaggac cttaatgaca  180
gactcatacc aattgtaaga ctttacgaac ctaacaagac agttgctcat tttccccctg  240
ccaaggtttc ttttattgaa caaaagggat aaccgctaaa atgtaaaaaa aatcctgccc  300
atctgaaatt ttccataaga cccatctcaa aaacacgatg ggctcagacc tcttatttcc  360
cccaaagtac catttcaact tgattgagtt ttaagcctgt accctctttt ctttgccttc  420
tgcttaggac ccttttactt aaatatattt ttaggcaaaa atgggttt               468
```

<210> 8239
 <211> 510
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220091f07a1

<400> 8239

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aaaaagagaa aaggagaagt gaatttttgg gaggcagaat gtgtcaagat tgattattcg   60
aacaaaaagg ttttctgtcg gtccaatatt gacaacttgg tgggaagtaa cgaattttcc  120
ttggactatg acttcttggg tgtagcagta ggagcacaag taaacacttt taacaccctt  180
ggtgtcaagg agaactgtca ttttctgaag gatgttgagg atgctcagaa gattagactg  240
tctgtgattg attgctttga gaaggctgtt ctctctagtc tatctgatga tgagcgaagg  300
tcaaactctc atttttagt tgttgaggga ggtccaactg gtgtggaatt tgcagccgag  360
ctgcatgatt atgtccaaga agatctaata aaactatata caactgttaa agataaagtg  420
aaaataacat tgattcaatc tggagatcat atcttgaaca tgtttgatga aagaataagt  480
tcatttgcgg agcaaaagtt tacaagagat                               510
```

<210> 8240
 <211> 421
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091f07d1

<400> 8240

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tttgtttttt tttttttttt tttttttttt ttttttttct ttttctattt ttttactttt   60
gttttattat tttttttttt ggaatgaaaa ccacgcattt tggggcaaaa aggaaacttg  120
gcacccccct acccccgagc tcgaagcccc gggaatttat taaagagcgc ccctgcaaac  180
gggccccaaa tgcctattcc agaaacctat ttcagctagc cttgggcccc aaattagccg  240
gaaacaaacc gggggtgaaa tcaaatacaca tttgaacccc cgccacaatc caaaatcttt  300
ggccgaaaag cctgggccgc ataccggggg agccaactca catggatggc ggggaactca  360
ctagccccaa gccattgggg acacctgccc tgggaacccc attactgaag aagccttcgc  420
g                                                                 421

```

<210> 8241
 <211> 426
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091f08a1

<400> 8241

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aaccaaacca ggtgttcctt tataaattaa attcatctgt acacgggcat agaaaaaat   60
acataaaaat ttttgttca gaacttgag agtagacca attgagtttc gggatataca  120
cgagacgaga ttatattata acaattcttc tcaccttagc agtcgatgtc gtgcacactt  180
gttttccaaa gacctccaag aaagacaaat ttctttggct agagatcaga cttgaacaaa  240
tgttcgtgtt cttcttttag ctctctctcc aatcgtgtat ttccatagcg agatttctgg  300
tctatccaac caataatc ggagaatata atctgcaaat tttgtggtgg ctctccatac  360
aatagaccgt gccacatttc tggatacgac tttagtgtct tatctgagct tgccgcctca  420
tcatat                                                                 426

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<210> 8242

<211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091f08d1

<400> 8242

ttgggtttttt tattttattg ttctttttttt atttttttttt tttgacacga taagccagct 60
 tcaactagat tagagggcaa cagaaagttg gccaatataa ttcccaaagg ggctgcacag 120
 ccagaattag accgagaaat tcaggggtcca aaaaaatcaa atccatgcc aacttgtaac 180
 aacccgacct ttacaggggtc ttaggcagtt tttgccaaagg acaattaatg tgactaccag 240
 gtaaacacct attattgcct aataacctat aggcttcaac aaatagaaaa cttagtgcac 300
 aaacaccatt cgcagccacc aacaatgcat gttctcaatc acagaacgag ccaagtgatg 360
 accgctcacc acgaatcctt tttgccagct gaatatacctt gggcataata gtcacacgct 420
 tggcgtgaaa ggacacacaag ttaatggcct caaagagccc aacaagggtt gcctaattgag 480
 actgttgcaa tgcaag 496

<210> 8243
 <211> 418
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091f09a1

<400> 8243

gaaaaaatga tgcactgcag gtttccactg ctccatccca caagacatct gggtaaaaag 60
 aaaagaacta cattttatct ttttatccta ggggcagata ttgaacatcc tttagtattt 120
 gttgtaggag agctacaatc acattttctt cttcatttgc aagccaaaca caatatgaag 180
 cattgactgc accttctctt tttataagaa gatacagaaa aaggggggaaa gaatattagg 240
 gttggaagaa ggtggaaaaa ttgaacaaaa aaagagatgc tgctcatcat ccagaaacaa 300
 aataagggtc tgctaccca ggaattttga aacagccact tctggatctt ttttctaaaa 360
 gtcctgcta aagattttga agggcacttt gtagtgtgag ttaatgtagc ctccaact 418

<210> 8244
 <211> 331
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220091f10a1

<400> 8244

atggggggggg gggggaaaaa aacccattaa agggcgggcc cccaacccat ttaaaaaagg 60
 gggggaaaaag ggaaccggcc aaaaaaaagc cccacggtaa aaggggattt ccacgggggc 120
 aaaattggga gggggccata aaaaaaaca atttatttgg gggggcccaa accccagggg 180
 ggactagaat ttgggcagaa aaaaaccccc ctttggggga gaaaatttcc ccggggaaaa 240
 ttgccccagg ggggggggta ttggccttca aaacaaaaaa ctaccgcggg atctttgggg 300
 ggaaaaaaaa gagatttggg aacccttgg g 331

<210> 8245

<211> 464

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220091f10d1

<400> 8245

aagcttaaaa tgaaagggt taacattaat acttctcaca ttacataaac ctgtttcaaa 60
 tacagtcaca ataaaacaag gactttcacc ctaatactaa gctgaaggaa tcgattgcaa 120
 aataataacc cttagaaaac actacggctt tgtaaatcat aaaccctaag ctctctcgcc 180
 cctaatecta cgagctagct gaatgtcctt gggcataatg gtaaccctct tagcatgaat 240
 agcgagagg ttggtatcct caaagagccc aacgaggtag gcctcagcgg cttcctgaag 300
 agcggagaca gcgctgctct ggaagcgtaa atcggctctg aagtcttgag cgatttcctc 360
 tacgagcctc tggaaaggaa gcttccttat gagaagctcc gtgctcttct ggtacttccg 420
 aatctccctc agagccactg tccccggcct gaaacggtgg ggct 464

<210> 8246

<211> 414

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220091f11a1

<400> 8246

aaataacaat atggagaaat taaacataaa atcctgaaaa tcaaacaatga tctatacata 60
 ttcattgtatg tacacagctg gggtcattagc ctaatcaaga aatgcaattc tgactcatac 120
 aaccagattc aattgacctt cagggttctgc tctacatgat atgataaacc caaaatgtcc 180
 caaggctctag cttgggtaac aaaataatgt acatgtcaat gtcacagctc taattttattt 240
 attttcgcca ggcgattgat ctaaataatgg tacaacaagc tgatgcactt agacatgctt 300
 aatcattact gtcactgcca ctgctgggtgt ccagaaagct atactctctc catctgctga 360
 gtttaatacaa cacagttccc eggctctctt gcctacattc aatggcttct ctat 414

<210> 8247
 <211> 522
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091f11d1
 <400> 8247

gtaaaaagca agtaacatta agttggattc ggatacacia gataattcac attatctgaa 60
 gtacttcacc aaacacaaat ctaaaaactc tcaaaagtca tttcgttctt tgacgctcac 120
 tttccgggga cgaagttggt ggcataggcc caggcggtgt tgttgacagg gtcagcaagg 180
 tgatcggcga ggttctccaa tggacccttt ccggtgacaa tggcctgaac aaagaagcca 240
 aacatagaga acatggccaa tcgtccgttc ttgagttcct tcaccttaag ctcagcaaaa 300
 gcctctgggt catcagcaag gcccaatggg tcgaagctgc cacctgggta gattgggtca 360
 gtgacctcac cgagggggcc accagcaata cggtaacctt caacggcacc cattaggata 420
 acttgtgtgg ccagatggc gaggatgctc tgggcgtgga tcaggcttgg gttgccaag 480
 tagtcgagcc caccctcgct gaagatctgg gaccggcct tg 522

<210> 8248
 <211> 579
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091f12d1
 <400> 8248

ccaaatgtaa ttgaaacaca tccattcat attgatttta ttttgttaca aaatacaatt 60

gaaactcact gaacttttag cagatgggtt ccaactttgc atttgatcac agtgggttca 120
 ccagtctgga agaacgtatt gaacctgtaa cattctaagg gattgcgctt atactatccc 180
 tcagagtgct gtttgcagcc ctttgggtcca taatgcttag tgccacgcct gacaatcgct 240
 ttgcataagt agcagtaatg gcgttggcat gccagcaaa acaagtgatt attatttcca 300
 atctttggat tatattgacg acaactagga cagccaagc catgttgagg aaagagctca 360
 gcctgtagtt gtcctaccgc ctggcgatga ttaatgcgtt cttcccagga atcaaccatt 420
 tctcgtggga acaattcaca tgaaccatcc ctgaaatgtc catatggatc tgatgcatca 480
 attgctttgt tgcagcggta acagaagtat tggtcacagt taccacattt cattctgtta 540
 caaccttcag ttcgagaaat tgcattgtcac aagaagggc 579

<210> 8249
 <211> 421
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220091g01a1

 <400> 8249

cttctctctt tcaccaatca acacatacta agttcttctt tctgttgaaa gcgatagcaa 60
 tggccacgaa tccaatcgaa gcggggaacg gcgacgctgc tccaaccct aacgcgacta 120
 ccaaatcctc cgtgtacctg caagactcgg aggagctgaa gcgagtcttc agccgcttcg 180
 acgccaacgg cgacggcaag atctccgtct cggagttgga caacgtcctc cgctccctcg 240
 gatccggcgt cccgccggag gagctccagc gtgtcatgga agaccttgac accgatcacg 300
 acggcttcat taacctctcg gagtttcgcc gcttttgccc tccgacaccg cggacggcgg 360
 cgacaccgag cttcacgatg cttcaacct ggacgatcaa gacaagaacg ggcttatatt 420
 c 421

<210> 8250
 <211> 452
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220091g01d1

 <400> 8250

ctcttcttcg tctcaaacct cttcggttcct tctgattcatt ccatttcttc caaaatggcc 60
 aaagaccagcag ttcgcgttct cgtcactgga gccgcagggc aaattggata tgctcttgtc 120
 cctatgattg ctaggggagt gatgctgggt cctgaccagc ccgtgatcct ccacatgctt 180
 gacattcctc cagcagcaga gtcgttgaat ggggttaaaa tggaattggg ggatgctgca 240
 ttccctcttc ttaaagggtg tggtgctaca accgatgtgg ttgaggcatg cactggggtc 300
 aatattgcag tgatgggttg tggattccct agaaaagaag gtatggagag gaaggatgtg 360
 atgactaaga acgtctccat ttacaagtcc caggcttctg cccttgaaaa gcatgctgct 420
 gccaaactgca aggttcttgt tggtgctaac cc 452

<210> 8251
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091g02d1
 <400> 8251

ctcgagccga atcggctcga gcgcactcgt tctcgtcgtg gaataacgac atgaagtcaa 60
 gcaatgtggg gatgtcgccg acaagtaagg tgaagcaggc tctagggctg aagatgttga 120
 agaggtcacc atcaaggaga atggtgtcgg gtggcagcgg tggaccgtcg tcgccggtcg 180
 gcggaagtag tccttttcat cagtccgggt caccgttgag gccacgacgg ccgatgactt 240
 ctgcagagat catgagacag cagatgagag tgactgagca cagcgataac cttctgagga 300
 aaaccatcat gaggaccctc gttggccaag caggaagaag agcagaaaact atcattctcc 360
 ccttagaact tctaaggcat gtaaaacctt cagaattcag cgattccaat gattaccaca 420
 tgtggcaaaa gaggcagc 438

<210> 8252
 <211> 466
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091g03a1
 <400> 8252

caggttgaac aaagtagtta gccttcatag ctagattgca atcaaagtgt tacactaaca 60

aggaaatgta agagcacaaa gaatctggct ccagaaaatt gtggtcacct aggatagtag 120
 tctctatgac ttcgaaattc taactaaca ctaccctcta cacaaacttc catcatcatc 180
 atcatctaaa tcaccattgg atttgacaaa gtgaggacta atgtagctgt tcactttccc 240
 agcttagctt agagacaact ctttcatgtt gtgggaaata ttctccatc tctttgacaa 300
 gctcttttgg tgttggggca gatacaatta tatggcgagc agtggggctg atgaagcctt 360
 cctccaccgc tttgtcaata aaagacaaaa aggtattgta gtatccatca acattcagca 420
 atcccaccgg tttatcatgg atgccaagtt gagcccatgt tatcac 466

<210> 8253
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091g03d1
 <400> 8253

acgatacata tttaagctta tttttctaac ctcaagcgtt aatgcatcat ttttctaaat 60
 aaagttccct aataaactac ttaagtatca agaacgatta ccctttggta ccattccgtt 120
 ccaacattgc ccttgaaaaa aacaagctgc aaccgaattt gatcattact atgatttcac 180
 ggctagaaa gctctatfff tgatttaccg tcacacttta ataatcaggg atggcagaaa 240
 agcggtatcc tttagcacc ctccatgcat aatatgcaat tcgagtctca taaaaacctg 300
 tgagaaagct aaggaaccct agggctaaaa ggccatatgc ttgagacttt tctccccca 360
 tatgaccagc gaagataaag tttgaaagga acaaaagtct tgttccaagg aataacagga 420
 ac 422

<210> 8254
 <211> 205
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091g04a1
 <400> 8254

actaattctt tttttttttt acttttttta cagccccccc tttatctttt gtggggctat 60
 tgggcatttt tttttccaaa aaaaagcttc aaactcatat atttaagggg gccactaaac 120

ccaatacaaa catgtccctg ttaaaaaacc cgaatctccc ccccccaata cttttttata 180
atcccccaaa ttaaccctta cccct 205

<210> 8255
<211> 573
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220091g05d1

<400> 8255

atataacagc tgtctggtct ctgcattaca tcaacgataa tggcttacac gttccaaatc 60
acaactcaga tctctatata gcagctttca accctaaacc gcattatcta tttaattatc 120
tataaggtcc aaacaagaaa tatgaacatg gaagggttta tggaaaaagc actgttatga 180
gtcttcaaaa tgatgatccg tctcatcaaa gatctcctcc tgcaaaagct cttcaatgac 240
atcttccatg gtaataattc caacagcttc ttcttcttca gggagctttg gaagtggact 300
tccatctatc tctaaaatat ccgagtacat attttttgac cattttctgc tccgagaacc 360
cctatttgat gactcgtttg tatttggaag gcttttccac ttgtggagtg gcattctggg 420
tttcaaagct ttctctttgg gaggcttttc accatcaata tccaccttaa catctctcac 480
cgagtcattt gcattatttt gggcagactg ctgctagtct tgtcacaccg tctgacaaca 540
acagccatgt gactatggcc cttctgaaac tca 573

<210> 8256
<211> 523
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220091g06d1

<400> 8256

atgtagcaat tggtaagcat caattgagta atttcttatg cagtgtttgt taaaaaacc 60
acataacaag gtgttttctg ttgaaggatg cagcatctag actagttccc cctggcaaca 120
attcctaggc tgacctgctc cacttctggc cttactgtta tctgaaacca gtaaagcgat 180
tggtataaca ctcaattcct ggattccagt aaacaacaca aaaacatgct actctacact 240
aattcctcgg caagagtaac tccacatact gcattcaaaa tccaatgatt tacaatctga 300

gccccgatg gcgtggcctt caatagtatg atgtggccat cgagttttaa aggataaata 360
 ttttcatcat aatcacagca gtgcctccac atgagtaaac caagaaccat gatctcctct 420
 accatcaagt attatctacc aactcgctg ataatatatc gtcctttttc tagatcgtat 480
 attgtcttca actgaggttt cctccaccta gatatagacc atg 523

<210> 8257
 <211> 523
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091g07a1
 <400> 8257

caagatcgcc cctataccag tgatcaagga aatttttcga actgatggcg aacagttcct 60
 caagtatcca ccacctaaag tgatgcaggt ggataagtct gcatggatga ctgatgaaga 120
 atttgctaga gaaacgattg ctgggtgtaa tccaaacgtc attaagattc ttgaggagtt 180
 cccaccacgt agcaagctag atacacaagc ctacggtgat catacctgta taataacaaa 240
 acaacatttg gaacctaaact tgggtgggct cactgttgag caggctatcc agagcaagaa 300
 gctgttcac ttagatcacc atgactatct cattccatat ttgaggaaaa taaatgcaac 360
 taccacaaag acttatgcta ccagaaccat atttttcttg aaaagtgatg gaactttgac 420
 gccattggcc attgagttaa gtaagccgca tcctcaaggt gaagaatatg gtctgttag 480
 cgaagtctac gtgccttcga gcgaaggagt tgaagcttat att 523

<210> 8258
 <211> 570
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091g07d1
 <400> 8258

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 tataaaaaa gaatacagta aacacgagaa cattcaacca ccccaaagt aacttgacca 120
 tacgtaggta gacgaaggaa tcatatgcct cctatttcac agtattgaaa aacaggcaga 180
 gtagtacagc aacctcaatg agagagccct tagatagaga tactgctggg aattcctctg 240

aaagtcaatc gggttctcact agaaggatag agcacagtgt aaggcattgt agctggccca 300
 gtgcgggtttc tgaacggctc atccttggtc ttctgtataa gcttatgttc aatctcttga 360
 agcttctttg caaacctggt gaaggcctct agtggaccag catcagaagt gcagaagtca 420
 ccaccatgtc tctcgccaag gtagaactca tcagatgcgt gccttgacag gatttctata 480
 attgtaaggt caatgagggg ctccttcttg ccagtaatag gtttcaaaaa ctgcttctca 540
 gggttcttta gccaaagcagc atactcagca 570

<210> 8259
 <211> 367
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091g08a1

<400> 8259
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 ggggttaccg ggggggggaaa attctacccc ccggatgata aaggggccaaa ttctgggggc 120
 aggcatttat gcctcgggga ccctttttat ggggttcaggg accgctttta tgcttcccg 180
 acaagggggg ggccttcacc tttaaaaacc ttggggccaaa aaaaaagggc cccccccca 240
 aaagaggggg ggggggtccct atgggggggt caataagatt aacaaaaaag ctaagggggc 300
 cttggcgggc cttagaaaaa aaaaaacctg tttaaaactt gcttttgga ccccgggggg 360
 ggcattt 367

<210> 8260
 <211> 416
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091g08d1

<400> 8260
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 ggttttttct gttgctgttt aagacttaaa gtaagtatat atataattaa caggggacaat 120
 atattgtaca tgccaatcga atgaaagctc gcagaagggg cgaagtacag gtagcgtaga 180
 gtgaagtcct aaggaaaaca caggggggaca tgacacacct tatacggaga ggagaacgaa 240

gaagaatata aggtctaaca gcaccacccc aagtccagaa aggaccgcac catggagctc 300
 ctttgtacac aggtagaggt ctgccttcaa gggctgacgg aacaagaggc ccaacaatta 360
 tagccacact tgaggcagaa gagaagcaag aggtcaagaa gcctcagaac gatcag 416

<210> 8261
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091g09a1

<400> 8261

actaatacaa atacaaatac aacatattcc tttgaactca tcatacatga tgtgcagagg 60
 acacaagttc tagcaaaaca ggtaaaacct gattccctca cttatagtta cattagcaga 120
 tgcattaaag tcataaggac aagcaaattcc caaatattag tattattctt ggggtgaacca 180
 ttcacccac cctctccttt tttcccaaca aaaaattaaa cggagggttg gtgaaatttc 240
 cttgcaaaaa catactagaa ataactttat acatggcctc agtgagggtga acaccatccc 300
 aattgatgta ctgagaaggg cttgagcaca cagtggcatt aggtgtgcca catgtggcaa 360
 acacagtgaa gttgtaaggt ggttctcccg atccacagca aacgttgaag gtct 414

<210> 8262
 <211> 485
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091g09d1

<400> 8262

aagtaaaagc atggatttat atatattttt ttccacgttg agtacaagag attaaattac 60
 ctaaaagaaa atatcacaca ctgaaagaaa ggaaagtgct tgaaaatact aaagggtatt 120
 taccaatggc tcttgtcttg aaaagaacct ttaatctaca taataggatc aaagaacagg 180
 ttgcaataaa agcacaagca attgccatta ttgacaatat ttttattatt cttataattt 240
 gctcttcatt ttgaactcat catgaagaag aaattaaatt gactcaaata gcgggggttg 300
 tcctgaatga tccaagagcc ttagcagcac ctgctctcaa gatgaattgg tggtagaagg 360
 ctgcaatggc tgctccaata aatggtccaa cccaaaagat ccaatggtca tcccaggcct 420

tctgctgggt gtacatgaca gcagctccta gactcctagc agggttaatg ccagtgcctg 480

ttact 485

<210> 8263

<211> 426

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091g10a1

<400> 8263

aaaaaaatat aattaatgac agattaacat atgttatttg atagagtaca attggccatc 60

aagtcacatg gttgaaagaa tagccaaact ttctccttt attacacctt atttttctca 120

atcaaacc aa atgatttaga aaatccacat tatgaaagta tgtatgtgta taaacattaa 180

ccaatctata aatgttttta gtcatgaacg catggcgtgc gcttagcacc taggaagatc 240

agctggaggc ggaggcactg ataaagaagg agtgggcca ttctcaacct cgaaagccat 300

ggctagcccc cacggcaaat gagtttccaa atggcaatgc acaagccaaa cacctggatt 360

atttgcttgg aatctaaciaa cggaccatcc tccgacgggg acagaaattg tgttacgtat 420

ctgagg 426

<210> 8264

<211> 371

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091g10d1

<400> 8264

ggaaccaatt aaaaacttaa caaaatttaa aaaaaaagg ggaccgtttt aaaaaacagc 60

tttggtgccc cccgggaaat aaaagcattt ttcaactgga gcaatattgc aagggtgaa 120

atagcctaca caaaagggga gccacacata taaggatgct ttctcaaaca caactgggag 180

cacattacca tccaaggcca acaaaatctt ccattctca cgtaaaaccc ctttatgggc 240

acaattaaac gtccaaaagg ggcatacatc tgttggacac caccctatat aatatgaacc 300

tttgattggg gtctcagtaa ttctaaagta atcatccctg cctgatgcag caatgagcct 360

ccttccactc t 371

<210> 8265
 <211> 427
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220091g11a1

<400> 8265

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 aaattttctca agatctaaaa tacatagagc acagtttttt ttttccaaac taaagaaaaa 120
 cagcaaactt ttgaaatcac ttccacgatg tgtagttgta cttgtacaca ataataattt 180
 ctaacaacat aaataatgac gagtctttat gtgacaagag atatgccttg tagaattaat 240
 gcatcagcta gaacttggtt agcagcttgt gaaggatgga cactgtccca aaacacatac 300
 tgtgtggcat tagaacaagt tcctggtgat ttggattac acaacaagga tggtgtctct 360
 acagtcccggt taccacagca tcctctgttt gcctccacaa aaccagattt tgaaggggat 420
 tgaacaa 427

<210> 8266
 <211> 455
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220091g11d1

<400> 8266

aaaatatgaa tacacgggca atgaaatttt aaggacaacc cttgctgtaa tggaaatcgt 60
 ttacataaga tgatgattta ttctagtttg cactttgcca tgccagctat cattgttgaa 120
 acatgcgcga gaacacttaa cagcaattta tacaacaga atttcttcat taacacttaa 180
 cagcaaacac gagaacattc aatcacccca aatacataac ttaaccatac ataggtagat 240
 gaaggaatca tattccttct attcactttt attgaaaacc agggaaagta ctgcaacaac 300
 catagagccc ctagatggag atactgctgg gaattcctct gaaagtcaat ccctcctcac 360
 tagaaggata gagcaaagtg taaggcattt tagccggccc actgcgggtt ctcaacgtct 420
 cgtccttggt cttctgcata agcttttgcct caatc 455

<210> 8267

<211> 451
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220091g12a1

<400> 8267

ctttatctga atgggatcaa ataggcacca taactcacgt tcccacaatc tacttctacc 60
 gtccacctc acaagacaaa gacaacgtta acaccgttgc ttccaccttg aaagacgcat 120
 taagcagagc cctagtgccg ttttatccac tagctggtcg ttacattgg ataaacaagg 180
 gtcgtttaga gcttgattgc aacgccatgg gggttcattt cattgaagct gaatcctcac 240
 taaccctaga aaatctcggg gacttttcac cctcttcaga atacaacaac cttgtcccca 300
 acgtagacta caccctccca attcaagagc taccctgggt tctcattcaa ctaactaact 360
 tcaagtgtgg tggttttagc attagcttaa atacttcaca tgctgttgcg gatggaccaa 420
 gtgcattgca cttcttgtgt gagggggcaa g 451

<210> 8268
 <211> 387
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220091g12d1

<400> 8268

gaaacaaagg aaggatcatt tttaaaaaat ttttttttga caatttaca caatttgatt 60
 ctgatataat ttttcaagaa aaggggggtg caaatgagcc agaattgcaa cattgcctta 120
 agcaacggga acccacctgt tttttttggg gccatttgcc catcaatttg ggaacaagg 180
 gggcttaagc cagaaatgta tggatctttc atgtaatatg cccatgcttc tggtttaaaa 240
 atgaattgac ggggttccaa aatttaatgc caaaaacttg ctataagggg ttcttgaaaa 300
 aaaccgcatc aacttggcat ggcccaaaaa tgcattgggaa aaacccaagt ttaggcattga 360
 atatcaaatg ccctaattcc aggtttt 387

<210> 8269
 <211> 377
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091h01a1

<400> 8269

aaaccatgca ggcgacggcg ttggcgacag atgaaccacg gcggcgctcc ggcgacgcgg 60
 agggggagaa ggtgttcaag gggagcgagg tggtcggtga cacgtcacca aattacttga 120
 agaccatttt ggccttggc gtgtggctcg gaaccattca tttcaacgtc gcgttggtgc 180
 tcttcgaat cttcttctc tctctccaca aagcactttt gcttttcggg ttgcttttcg 240
 tgctcatggt aattcctgtt gatgaaaaga gcaaattcgg tcgaaaatta tccagaaaaa 300
 aaaattgggt gtgtttcaag tacatatgca agcacgtttg cgcttacttt cccatcacgc 360
 ttcattgtga ggacatg 377

<210> 8270

<211> 412

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091h01d1

<400> 8270

ccctctctt ttctcttttg gcggggaccg tgtttttcaa aaggatctca tttatttgcc 60
 aagcattatt aaacaataag agtttttttt ggccctatt tgccctggt aagaaattta 120
 aaaattggca cccccaagg ttcaaggta taaaccatta tcctcgcaa aattctccat 180
 ctcaaaagct atttttctct caaatattct ttactttaac ccaaataga attttgcaa 240
 aaagattgct ggctcccttt ccaggatcac tttgttttac aatagacctt ccaacccta 300
 tagctttaac cccaccttcc tgaacatagg caatatcccc cgggggaaaa aaaccaaatt 360
 ccccacat aattatgcct ctctcgggga ttattttgcc ctgctcttct ct 412

<210> 8271

<211> 446

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091h02d1

<400> 8271

atcttcctcc cttgacaaca tgggtgtgca agtgcaacac aatctctct tagtcataac 60

tttcttgatg ttgttgtggt catggtggag ccttttgggt gcactaggag accctcaaac 120
ccatttaatc aacaaggggt gtagccaata caacgcaacc gacttgtcca acttcaacca 180
aaacctaaac gcaactttgg atgaccttag agcacagggt agcaaccaa gcaagcactt 240
tgccacggct caagaagcta gaggagcaga ccttgtctat gccatgtttc agtgtaggaa 300
ctaectetcc accgccgact ggcgcgctg ctctgtggtt gccaccgccc aaatccgcaa 360
ttgctcagcc ggagccaacg gtgcccgggt catctatgat ggctgcttcc ttaggtatga 420
gagcaatggc ttctttgacc agacca 446

<210> 8272
<211> 405
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220091h03a1
<400> 8272

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tttttgga aa aaaaaaacc ccaaaaaagg ggggttttta aattgggggg aaaaaaagg 120
ttttttttta aaaaccttcc caaaatcccc caaaaaaaa aacccaatc cccccctt 180
ttttttttca acaacgggcc ccaaacaaag gaatttcccc ccaaaaaaaa aaaaattttt 240
taaaaagggg gggggaaaat cccccctttt tttttttttt aaaccccggg aaaaaatatt 300
ttttattttt atcaaaaaac cgggttatt aaaaggaaaa aagggttttt tttaattcca 360
aaacctcca aaaaaacccc caaaaaaaag tcccttgggc ccctt 405

<210> 8273
<211> 522
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220091h04a1
<400> 8273

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attcctagtt attacaacaa gatggcaacc atcaatctta atcgagcttc aattttgcaa 120
aaaggttaaa ttattgaaat tatatcacca ataaaagaaa tagctcagaa acatacacca 180

acaaattgtc tagtttttaa taatcaaagg tgcaatccat ctaactcagg agaaactgac 240
 tgaaggggggt taaaaagaaa tgataaaaat ctgaagaata ttatttttct tttctgccat 300
 tgtatcaaca caagcttttg ttccattta catgtcttgt gtatcttgat tatcatcacc 360
 ccctctgttg gatcctcctt gatcagttcc aaacgtcctc ttgctcatgt tagttcgtg 420
 cactaatcga accagcgctt gaaccacttc tgacataggt ggtcgggaatt cgggctccgg 480
 ctgaacgcat agagcaataa catccgcaaa tcgagaaagg ga 522

<210> 8274
 <211> 299
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091h05a1
 <400> 8274

agtcaatgcc actattgaaa gaaattacaa ggggtgattg atgtctgcta agttgtaaaa 60
 aatgggtata ataggattgg ggtgatgaga gccggccgat cttgtgagaa atcgactggg 120
 gctatgtatg tatatagcgg tataatgaag cgaggtgtct gtgatcgct gctggacagt 180
 ggtgagacca ttaccatgca ccgctgaatg gataagcata tagaaccgag ggtagaatgt 240
 aaaaatcgtc tgctttcgtt gagcacctgc cacgattgaa tctactacta ccactatgc 299

<210> 8275
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091h05d1
 <400> 8275

ggggatcaaa acccatatt ttggggcaaa aaggaaaccg gaaacaacaa aagcccccaa 60
 gggaaaacta aaatcaggtt taaaactggg ccacaggaa aaaggggcca aaagggggcc 120
 caacaaccta ttccctaac attaggggca aaaattaacc agagaaaaac cagggggcaa 180
 aataaacctt acctgaaacc ccgcaaaaa agaaaccttt gggccaaata aacctggcca 240
 aaaccccggg gggccaagta aattggctgg ttggaaaaac cgaaaccca agcccttggg 300
 ggggtgggacc cctgggaacc ccactccag gaaattttgg aagtgcctgg tccccacccc 360

ggggggcaaa ttgccccaaa gggccaaacc gggagggggg aaacccttga cggccaaaa 419

<210> 8276

<211> 527

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220091h06a1

<400> 8276

aaaagcattt cacaaagaga agacacagtg gatcgtgggtt tcaattcatt tcagacccaaa 60

catggtgcag tggcataggg acgtttttcc ctttcttcgc cacattcaca agcgagtatt 120

ggaacccag gccactcatt cagcttcaag ccttctaatt tctcgcttag cctcttctct 180

ttcacaaggt cagttgggga ggagaacatg gacaacaaca actttgccct gtttttcaag 240

accggttttt ctcactttcc aacatcaggg aatatcaagt tctgctcagt tgctggcaaa 300

ttcatcagag gaaacacctg ttntgtcacc tttagcccca gtttcattat tgagtagttc 360

aaaaggtgaa gaccagaagc agaaagttgt tactaagcca gaaaaagttc aagcgatatt 420

aaaggcaata aaacagagtc caaagaaggt caacttggtt gctgctctgg ttcgtggtat 480

gcttggtaaa gatgcattga tgcaggtgga attgacaata aaacgag 527

<210> 8277

<211> 447

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220091h06d1

<400> 8277

gtccaaaaga caactatcct gattatgaat atcctaaaca atcaaattac aagataaata 60

aaaaataaaa attatgaaac aagcaacata cattgggaag gcagtgtcca caaattccga 120

cagaagggaa tatcaacatc ccacaacgca atcgacccca tcccaaacta acacaactta 180

ttttccccc aaaagaaaa atggctcagg aatcataaca tctatggggt ctactttgcg 240

actaaccgac caactcaaaa tatgaggaac tcaaacatac tcaatccttt attatattta 300

tgctgcatag aagaaatgtg gatttggggg ggagaaagca tagaaacaaa taaattgctg 360

atgacagtag aactgggttg agaaggatac caaggtatac gaacttgctt gcttaatcat 420

caattgccag catctcggct ataaaac

447

<210> 8278
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091h07d1
 <400> 8278

ttgacttttt ttattttttt ttttttttgt tttctttttt tttttgtttt tttttttttt 60
 tttttttttt tttttttacc gggcacatag ctcccaccct ttgaaccacac agcgacttta 120
 tcaagtecta ctgcagcacc agccagtacc cagccctctg catacagtcc ctctacgtct 180
 acgggtgcac catgcagcaa gacccccacg agctcgttca gacaggcctc taactctccc 240
 tcaaccacac cgagggggacc aaaacactcg tcgcaaatg cctcacatac agaggcctca 300
 taccgagaga atacgctgcc ttgaacgact gggctgaaga aatcagtgcac agcgtcgacc 360
 ggataaccgg tcgctgagga actcaaccgg ggaaagcgca ggggtgaggac ttcacgtggc 420
 acatcagca 429

<210> 8279
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091h08a1
 <400> 8279

tttttttttt tttttttttt tttttttggg tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt aaaaacccgg 120
 aaaagggggg gggggaaaaa aaaaggggta aaaaagggga aggggggttc ggggggtaca 180
 aaaggggggg gggcgaaaaa acaagggggg ggacccccct ttggggggcaa aaaggggcaa 240
 aaaaaaaaaa aaagggggcc ccggccccta aaaaaggggg ggaaaaatcc caaaaaaagg 300
 gcccccccaa aagatttttg ggggggaaaa agggccccaa aaaagggggc cccttttttt 360
 tttaaaaaaa agggaaaggg gggaaaaaat tcttttttaa aaaaaaaaaa atgccccccg 420

<210> 8280
 <211> 294
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091h08d1

<400> 8280

tttatttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttttttgg 60
 tccgaacaaa aagcagctgg atttaaaaca ccttaaatat tggcaacaat gggcccaaat 120
 catgcactta cggaggccct attatattaa aggaggccgg atacatagag tccacgatga 180
 cacctgcact attcaaaacg aaattttcat gcacacagag accgatcttt tcatggcaaa 240
 atcaaaagtt gtgttcccat aatgagcctt gctgaaaaaa tacttgaaat aggc 294

<210> 8281
 <211> 430
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091h09a1

<400> 8281

aagagaaa caacaaagtt accatattat tatttcacat ttttttctaa ttcttagaaa 60
 caaggttacc attttttatc taaatcgggc accagcagaa agaccctaca ctacagtgga 120
 acatggtaca gaaatccaaa agttgcatcg aaacaaccat gaaggaaaat aatgaagcta 180
 ttcccagatt cggacctcca tgaagccatt ttcagtggca cagcccctaa acatgccatt 240
 gcaattgaaa ccataagcca cttccccagc gttggacaca gcaatgagac cagccatccc 300
 ttcatcgaga cggtgcttga tcacaaaatc cacggttct tgaagcttca agcctttgta 360
 ttccatcacc gctgccacct cacgcgccag cgtgccacgt atgatggcct cgccttcacc 420
 cgtgcacgat 430

<210> 8282
 <211> 416
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091h09d1

<400> 8282

atcaaataagg caacacctcc aaaaaagggc cccacacaaa attaataaat aaaactgatt 60
 tacaaaattc caaagatttt tcttcaattt cctccaaatt acaattacaa cgggaggacc 120
 ttaatgactg acacataaca attgtaagac tttacgaacc taacaagaca gttgctcatt 180
 ttccccctgc catgttttct tttattgatc aaaaggcaaa accacaaaaa aaaaaaaaaa 240
 atcctgcccc tttgaaattt tacataacac caaactcaaa aacagagtag cacagaccac 300
 ttatatacac aatagtctta tttgaacttg attgagtttt aatcctctac catcttttct 360
 ctgcttcctg gattagctct cttttgttta tacatatttt tagttcaaaa tgggtt 416

<210> 8283
 <211> 360
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091h10a1
 <400> 8283

accaaaggaa aaggaaggaa accttcaaatt aaaaatttat gggaaattgg aataaaaaaa 60
 gaataggaaa ggggtgtccc attatggccc cccccggaa acatgaaaaa tgaaccgcg 120
 ctaattaatt aaccctcgt ctaaattctca agagggaaca attttgacc cccacgggg 180
 gggccctgat gaagatccca aaaaaaaaaat cttttaactg gagaaagggg ggggcttagg 240
 catatccttg acaattcccc aaacaagctg ggtctttggg aggggtgtacc catccctaag 300
 ggacctgttg ggaacaaaaa cactcacgta caattggttg cccaggaaac gattctttgc 360

<210> 8284
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220091h10d1
 <400> 8284

atcccatctc ctgcaatcca aataatcgtc aactagtttg agtttaaatc cccttacatt 60
 tgaaaagaaa gacaaaacaa tgataacttc tgagagtttt ctttgacaag aacagataaa 120
 gatagcaacg tttgattttg ggtgtgtgtg ggtggggggg ggagagcatt taaaaattat 180
 attaaagtga taccaaagct caacaaaaat gatggcacag gaaacatgta caaaaaaaaa 240

agcattgtag ttagatataa atacgtcaac caaaagtgac accccccacc caacttggca 300
 atattaacca tttagcgtgt tctcttgact tgccgccaat tattcatttc tttccttaca 360
 gcttcctagc agctggggtt gagtatgaca atattag 397

<210> 8285
 <211> 530
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091h11d1

<400> 8285
 gtaaaaagca agtaacatta agttggattc ggatacacia gataattcac attatctgaa 60
 gtacttcacc aaacacaaat ctaaaaactc tcaaaagtca tttcgttctt tgacgctcac 120
 tttccgggga cgaagttggt ggcataggcc caggcgttgt tgttgacagg gtcagcaagg 180
 tgatcggcga ggttctccaa tggacccttt ccggtgacaa tggcctgaac aaagaagcca 240
 aacatagaga acatggccaa tcgtccgttc ttgagttcct tcaccttaag ctcagcaaaa 300
 gcctctgggt catcagcaag gcccgaatggg tcgaagctgc cacctgggta gattgggtca 360
 gtgacctcac cgagggggcc accagcaata cggtaacctt caacggcacc cattaggata 420
 acttggtggtg cccagatggc gaggatgctc tgggcgtgga tcaggcttgg gttgccaag 480
 tagtcagacc caccctcgct gaagatctgg gaccggcct tgaccacacg 530

<210> 8286
 <211> 397
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091h12a1

<400> 8286
 gattcagcaa gtgcgttttg gaagcattag accgaaatac ttcgagatgg cccgtacaaa 60
 gcaaactgtt cgtaagtcaa ctggaggaaa agctcccaag aagcatcttg caaccaaggc 120
 tgcacgtcag actgtaccaa caactggttg tgtgaagaag cctaattcct atcgccctgg 180
 aactgttgct cttcgtgaga ttaggaaata ccagaagagc actgcgcttc tttttaagaa 240
 gcttactttc catgaggttg gaaacgtgaa attgcccagg attaaaggac tgaactgcgt 300

caacagagcc atgctgtgct tgcattgcaa gaggctgttg aggcttacct cgtcgggctt 360
 ttgaggaca ctaacttggg tgccattaac gacaagc 397

<210> 8287
 <211> 450
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220091h12d1

<400> 8287

agcggaagat ctgaaaccgt tattgggact cgggaccact tgataacata cataatctga 60
 ctcattacac gggacacata taggcagagt cgggtctgaa agcgaaaaat cagtcgctca 120
 ctgatcatag actacaactg tgctataagc tatggcgatg tataggacag ggtacacgtg 180
 gtgactagtg aagaggagag gaccactgtt tgagggtgtca ggagcctgta ctaggaacat 240
 gatcctacat accatggacc tttgttcaga acgggatatc tatgaggggg cactcaatag 300
 tcgaccttgg gccataatca gggcccaggg agtgaaggct gtcattgagat catagctcat 360
 ggcagaccaa tcctatgcgt gcacctgatt tcctagtgtc tgagatcgat cgcacttgga 420
 taaccagggg cgtccaaatg gagaagatgc 450

<210> 8288
 <211> 93
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092a01a1

<400> 8288

gtaaaatcat ttcagtgtac agttttcacc atcaactttg cccatcgatt tactctttct 60
 ttatgataat tggtcttggt atggtgagca agc 93

<210> 8289
 <211> 93
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092a01d1

<400> 8289

002220"EFFE560

gcttgctcac cataacaaga acaattatca taaagaaaga gtaaactgat gggcaaagtt 60
gatggtgaaa actgtacact gaaatgattt tac 93

<210> 8290
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220092a02d1

<400> 8290

aaacagaaat gaaaaatgat gattagctcg attcaatttt cactacggca gtggcagaag 60
ttcagtatgg tgaattttga atacgtactt ttccatctgc ttttcatect ttatacaaga 120
gaaatgtagt ataatatgac gcagccataa agagcactca atcattaata cagaagatag 180
ttacggagcc tgtacacctg gtgtctttct tgcctaaagt tgcagttcag cttcttcaat 240
catcaaaagg tgaataacgt gatcatttaa acttcagagc cagagggctc tgtggacaac 300
gatgagtctg tgccataatt ccaaaggctc ttcaactcac ctcttataca tcccaatatg 360
actgtgacac ctagtgtgca tggaacaagg tagagaagtg caggttgtcc atttncattc 420
atcagatata gtcccatata tgtcaaaacg 450

<210> 8291
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092a03d1

<400> 8291

aaaaataata tcgaaataaa ctatacaagt gaagagtaat tttcacctta ctgtacaaaa 60
tcataaaatc atttgaccat tttttttaca tgtacaacat aataatctgt ctaaagaaga 120
cttttttttt tattttatat atattaactt tctgtcaaaa aatcactgtt ctccatatta 180
cgaatctttg attatttcta aactgtgaaa taaaaaatta tatgaatgga ttttagctaca 240
aactagattt aggcaaaata cgaactagtc ctcgaacaac tgctcccatg gctgtgtaga 300
aaatgtgtag aatttgcctt gcccttgtct cccttttaac aactcctatt gcaaaagaat 360

09513 0000

<400> 8292

<400> 8293

<213> Glycine max

<223> Clone ID: jC-gmf102220092a07d1

<400> 8294

gaaatgagga tggttttttc atataaaaag cacacaacac ttgcaagtgg gatacttcta 60
 cgtctttaat ggataaatac attcgtgggt tcaaaaagta accagagcta caattataac 120
 agcttattta caacacgctt aacaaattta caaagaaaat cctccagaaa gcgtaattag 180
 actgcttcgg caaagccaac ttggagattt ccatagtcaa agacgggtgtg atatgccctc 240
 atgaaaacat cgccaagaat ccacaatgga cccctttggag gaggaacatc aaaagcaata 300
 aaccactaa ggcagacttc tgtaatgcct tctccaggtc ttagaatata ctgctctggt 360
 gtgaggacaa aagggttatt tccaattgtg aacgtaatgt ttggcatctt ggaaagacta 420
 ttacagctta tcactgactc tccagatgga cttggcaggg tctcacacag gtgattcaca 480
 tagttgaata ctctgt 496

<210> 8295

<211> 569

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092a08d1

<400> 8295

tagcggggat ttgcgctggt acatcgttgc agtgccgcct gcttgggggg ggggggggga 60
 tgaaacacga agaagttaga aagtatgggg taggcaaaat agggataaaa tagtgtgtag 120
 gggggggaga gagtgtgtgg gtggggatag gagaaagttg aggagatggg ggtgggggtg 180
 ggggtgggtg tgtgacaccg accaagcgac cagaatagag caaagcggca gtaaataggg 240
 gttaggagac agtcatactc aacaataaac gatggtagaa attgggaaca gcgggacact 300
 gggcgactg caacgtaacg aataggtata gtgagcaata aactaaatat aacccgagag 360
 agaacctgac ctttaagact gggggctatg caagagcgag ccgaatttag ctttacgac 420
 gggtatattt gtgggagggg catatatgtc gctaggagaa gtggagctga aggagataga 480
 ggagtagcta taaagctaac tggagaggag agagtgaagg cctaggcacc gactcataag 540
 ttgggtgccca ggtgttggtg gtgttgagg 569

<210> 8296
 <211> 562
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092a09d1

<400> 8296

gattgacttg cgatttgccg tgctacatgt gtaggagtag cgcttgcttg gggggggggg 60
 gggggaagg gaaactaaga gaggctggca gggtaggatt ggggaagagg taagactaac 120
 taaagaaaagg tggataaacc aaaaatgaag tactgagggt aatctgaaga aaagtaaaag 180
 gaaacaaagt gtaaaaagac tggttgagac ttaaaaggga taatggctgg tgttatgaaa 240
 ggtaatacaa aaagaatttg acaaaaatag ggtattagag agagggtaaa ttgagggcac 300
 caagttgtgc cgccagagct atagccacga cggctgcgat agtggcacct atgttatgtt 360
 agtaaaatca cgtgaccgaa ggagacgcat cggggtgcgg caatgtgaat aactgattag 420
 accggtccgt actaagattt ataaagacac ttgtgcgcgt tccctgaaac cagagcttac 480
 taagtgtctt aaagacagtg agtgtggcat tggcggtaga attacaagcg cacgtaaaaa 540
 gagcgataaa cgtgctacct gt 562

<210> 8297
 <211> 330
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092a10d1

<400> 8297

ggcggggggtt tgcgtgctac atgtgtggag tgggtgcttg ttgggggggg gggggggctg 60
 tgaaatgccg aaaaggttac agtaagaacc aggctcctca agttctaaac aggtaatagg 120
 taggacccaa aataccacgc cccaaaaaga accccccacc ccggcaccaa caagtaaggc 180
 tggattcact tggttgggct tggtgggagt gtgttttttt ggtgtgggtg ggtgttggtg 240
 ttgggtgggt agtgtgtgtg gtgttgtgtg tggttggggg tgtgggttgg tgtgtatttt 300
 ctgacaggtg atgggtggag gttaggtatg 330

<210> 8298

<211> 483
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092a11a1

<400> 8298

gcagctgaat atttgagcga actcacttta aacagtggca aagagtttag ggccaaggtc 60
 gaggagagag atacatctgg agggaaagcg aaagggcagg gtactgggac agtgcttgcg 120
 gtaactctag tagctgtgga ttcggagatc agtggttaatg ctgccatgct acaggaagga 180
 cttgctaggg tagaaaaaag gaataggtgg gacggaaaag aaagacaaca ggcccttgac 240
 aatttggttc cgttccaggg cgaagctcga accagtaggc gtggaatgtg gcagtatgga 300
 gatatccagt ctgatgacga ggacactgct cctcctgcta gaaaggctgg tggtagaaaa 360
 tgagtgtatt ttaagagggg agataagtta taaaatagac attttcaaag aaaatgagca 420
 agttataggg atgaacattt taattcaagg tagaggaaaa aaatgccata tgtaatcctt 480
 agt 483

<210> 8299
 <211> 487
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092a11d1

<400> 8299

cggttgaccg ggccgtggcg tgctacatgt gtaggagtgc cgctgcttg gggggggggg 60
 gggggggcaa atattgctta gagctattgg ggaggagaaa agaacgggaa aaaaggcgtg 120
 tacttgatta ataaaagcga agttggacga acggggcggg gcgggggaaag gggcgggccga 180
 cctgcacata aaatagaatg gatgaaccag gatagagcct aggggggggtt gtgattggca 240
 aggaaaagcg gtagcttgag aatggctgta ggggtgggca aaagcgtgag gggagaatgg 300
 agtgttttgt ggaaaagata tgtaggggtg attattactt gggtgactac caccactacg 360
 cgttgtcgta gtacatgcca gagtggttaga tgcctatagg ttatcttgat gccggtcact 420
 ggtctttgcc aatccaatta aaggcgtaac ccttgcgggc tgggtggggg tctttattga 480
 ggtgggg 487

<210> 8300
 <211> 579
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220092a12a1

 <400> 8300

atacactcgg cacctctatc aaagccgctg atgtttatct tgcacgcgca ttagtgaagc 60
 ttatttgtct agctactttt ctcaaggtat cagagagcga tagctttgat ccgtatcagg 120
 agtttttgaa ggcgttaata ggttttatag atgttgctgg gctttatttt gccttgaccc 180
 agttgactca caggaacatc tctcagaatc ataaatttca agcagttgga cttggctggg 240
 catttgctga ctctgtgctg catcggttgg ctccactttg ggttggtgcc agaggattag 300
 aatttacttg ggattacatt cttcagggcc ttgaggctaa tgcaaatttg gtgttgagca 360
 tatcccttgc tgcacttgga tctttgatgt ggcttcgaaa aaataaaccc aagaccctca 420
 tccctattat atatttgagt gcacggattg tagcaaccat gccatctatc acaagctatc 480
 tgaggcgtgg attgaggtgg cactttccca aagtggctct gtctgagctc ttcacatccc 540
 tggatgatggc tnttattagc tggcaactgt tttctgatg 579

<210> 8301
 <211> 507
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220092a12d1

 <400> 8301

ttgcggggat ttgccgtggt acatcggttg agtgccgcct gcttgggggg gggggggggg 60
 ggggggggatt ctaacaaact cgcggaagg aaggaaagta aatgccgaac aaaaacaaat 120
 gaaaaggcag aaaaataggg agccaaggga aacaaatact aggctactgc ttaaaaaact 180
 acagcatttg ccagtaaaat gtgacttaca aaagacggaa ctaccaggtc agtacgagcg 240
 aagcactggg tgtatatgca accgtgtgca tagatacaaa atacggctta ctggagaaaa 300
 cttagtatta cccagcgcaa cactgtaaaa ttcattatgg gcccaaacgc ttattttaag 360
 ttatcttgta cagactggcg cagacagcct agccggctga taagtttgct atgtaaagag 420

agaagaccca gcacccgtgg cccgggaggg ggggtcaactt atagcaaaca gttaacgcta 480
ctagcccaga gctgtaatat taaaggg 507

<210> 8302
<211> 541
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092b01a1

<400> 8302

aaatataata ataatatata tatatatata tatatatata tatatatata tgtttttttt 60
tccttctctt cctgcttagg actttaagta attatatata taattatatt tttatatata 120
ttatatatac tctaaagttg gaagcttttt attcttatgt atgatgggtg tgttgtgtga 180
gttctcaagg gaagcaaagt cctatctttc acacctttca gtctcaaccg tgggaagaag 240
aatctagggg ttaacagcac caccccaagt ccatcaagggt ctgtgctttg gtgcttcttt 300
ttttttttgt tttgttttgt tttttctttc tcaactgggaa attgggtcga tttttttttt 360
ttgtcggaag gaggatatgc tgcaacttgt gaggtaccct cagtttggtc tgattccaag 420
gttggtcctt gttgccaaaa aacattgctt tttttcttca tgagttggaa ttctgagact 480
ttaacctgaa attctgtttc tgtggctccc ttgctggtga aaaaatggga ttttttttca 540
t 541

<210> 8303
<211> 282
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092b01d1

<400> 8303

gaatgaacac atacgagttc acaaaaaaaaa gggggaaatt tataaaaaaaaa tacagaaaaa 60
ataaaacaga attgagtaag agggaaggaa acatagagaa aatttttagca atcagataat 120
aagaagccag tagtagtgca aaagtccctt gccaaagagt ttggaacccc ttttagttaa 180
gcagggtacct tctccccctt gagtggcttc accacttccc atgtgaagtc agggcatct 240
ctgccaaagt gtccatatgc agcagtcttc aagaacctgc ca 282

<210> 8304
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092b02d1

<400> 8304

agttcaaaaa caattgctct attatttaac ctagaattaa caaacgtaca gcttccacat 60
 tattactagt aacataatt aagatgatcg aaatacaaaag tgacagtga aacactctta 120
 ttacttgcaa accgatcgag agcatccaaa tacagacata cagccaataa taaccataga 180
 caagtattgg ctatttttatt caaaagcaca atagataagc aaaccacaca cacatttttag 240
 atggagatac tgttgggaat tcctttgaaa ctcatccctt cctcacttga acgatggagc 300
 aatgtgtatg gaagctgaac tggcccatgt cggcttttca gacttggatc attgttcctc 360
 tgtgtgattt ttccctcaat ttctgccagt ttgtttccaa actttttgaa agcttccaat 420
 gcctttgaat ccgtagtcca atttggatta tccctttggc caggtagacc tcatcagaag 480
 catgccttga caatatctct atcact 506

<210> 8305
 <211> 463
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092b03d1

<400> 8305

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 taaactaaga ctttacaac ttaagctgtg acctgaacag actttgtgcg gggggaaaaa 180
 gaatatacta aaacgtgtat aagctataca ctaagcttga aattttaata tgcaacgtgt 240
 ctaatctact caagttggcc ttattttttt tggaagctgg gtcccatat tcgaatggga 300
 taatcatcac ttgcagatgc caacatttgt gggattttgg ggttccaact tacacaggtt 360
 acagtcatga agtggccaga ttgaaccttt acaggcctgg agttccggca gtttcaaagt 420
 tatacctgtg aattcttact accactggcg ataaacgtgt tat 463

<210> 8306
 <211> 541
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092b04d1

<400> 8306

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 cttgagaaaa ggtgcgaagg ccagaaaact tgacataaaa tctcagggat caggtggaaa 180
 tgaaaatggt gaatcactta tattaacagg actagtgtgg gttatctata tcacactttc 240
 aacggttgca tattcagatt gtaaactatg cttatgtccg cctccttact cgcttgccat 300
 tcggattaac tgattcagca gctgccccat ctgctaaatc ttgaccatat atgctactgc 360
 cacttctctt tctgcttaat gtctggcctg agttatcatc cactgatgca aatgtctcca 420
 gcaattccaa cagcattgag gggcagctct ctttcaaatg cacaaaagct tccgactgca 480
 ttacagctcc caagtttgca ggatttgcaa taaattttaa acagattgcc ttaagctgtg 540
 g 541

<210> 8307
 <211> 527
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092b05d1

<400> 8307

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 aaaatgcagc cactaaggca ggcattggga aagattgcac aaaatctctc ttgatatcat 180
 tttaatcagt aggaaaatct gttacggcta gtcctgaggg acctacgttc ttgctgatgg 240
 aagcacattt tttcctgccc cagaagcaac attgatctca atactgtcaa aaatgtctga 300
 tcctgatttt gtaccgtcct taattggcaa ttcattggccc tactgtttc cttcttttgg 360
 tttgttcaat ttgtctttgc tttttcccca taccacgggtg taaagtccac tcacaatgat 420

aatagctcca atcacacttc ccaaataaac ttgctcagcc aaaacaatgg atcccaatgc 480
 agcagtgata atcatacata gagggctgaa agaagtcaca aacacag 527

<210> 8308
 <211> 539
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220092b06d1
 <400> 8308

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 gttgattatg ttctaagata cgcaaccaat acaatagcca cgataagggtg taaaaattgc 180
 acgggaagac ctcacaccat tcaactcttg aaagaaattc aatcatcgac actcatgagg 240
 aaaatgattg tagcgctcta tcaaaacttt cttcagctga tgatacccggt ttgaccaata 300
 catgctctgg gtgagaaaagt ttcagctggc tgaatgattt gttagatggt ttgccgagat 360
 gaagacagca tacaactaga ttggctagag tttctggatc cctggcatcc ttgttaagag 420
 cttcaaccaa aaggggtctca gtttcgtcga agttgcccatt gtgcatgcag caaacagcct 480
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<210> 8309
 <211> 327
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220092b07d1
 <400> 8309

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 ggagtacttc aaaatacaaa tggctaatta accaactaaa agtaccact caatttagaa 180
 agtcctaaga aactaactga taatgggatt gctttcgttc aaccctgca caaacttcaa 240
 actttaacta agaggtagac tcatagtatt agagggaaaa gtatttatat ccgggattaa 300
 aacagcccta aattgggcac atgggaa 327

<210> 8310
 <211> 563
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092b08d1

<400> 8310

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 gcgagaaaat gactaaagct aaccaacgga taaaatatga ttttcctga aaaggctagg 180
 aaggtacgta cttgaaaaat aacgataaat ggtgcaagaa taacaaagga aagcattgaa 240
 aaaagctatt gatacacgtt agatagaggt gccgctagtg ggttgggggtt tacttaagcg 300
 atcagataaa gatagtgggtg tgattgggtgc tttagtgggtt acatgataag tgggtggctgt 360
 cggggtaggc aacagtgtta taggtaattg gcctagtgggt ggctgacta atggctacct 420
 gttcatacgt atgggtatacc atcatagtta aaccagctct aggcgggtag atggtttgat 480
 cgttcgtaca acgcttagcg tcttaaaaac ctacgtgtgg agtgtaactg gttgaactgg 540
 tggctagcta ggtaatatag ata 563

<210> 8311
 <211> 515
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092b09d1

<400> 8311

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 gtgtaaaacg agaaagaaaa cgaagaagag gtgaggggtta taaggaggc agagtaagag 120
 ctgaaaatag gcatgagcga caaaataaca agggatatcg gcatttaacg tggggcgggg 180
 tattgtcgtt ggctagctcc accgtgcgcc cgtttatagc cttcctaaca ccgatgggtt 240
 gttcggtttc ctcttcgatc aaggcgactg tctttttcgt cgtggcggtta ttacaatttc 300
 atttccagaa ttgccagagc ttttctgttt caaaagtgtt cgctaccttc aaatacttgg 360
 taatcctctt cgcccagcat ttgcagacaa ttttgtcggc aatcccggtc gtatccgggt 420

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360

aaaaaaaaa aaaaaaaaaag gggcgcccc 390

<210> 8314
 <211> 469
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092b11d1

<400> 8314

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 gggggggggg gggggggggg acccgaaaaa ttcacaaaaa attggggggg ggggaaattt 180
 cgggattaga gcaaaccctt tttaattggg aggggggtttt ttggttccaa cccaaaaatt 240
 ggaaaaagtg gggttcccat tgggaggggc cggttaaagg ttgaaagccg gggccaaaaa 300
 gggaaaaccc cttaaaggga gacaaaaaac cccctttttt tccaaaacca aggggggggaa 360
 aattgaaaac ccttttgggg gccatagttt ggttaaattt ttaccggggg gcctttttta 420
 aaaaaccctt ggactttaag gttccctggg ttggttttcc ttggccaaa 469

<210> 8315
 <211> 625
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220092b12a1

<400> 8315

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 cagagttctt ggagcagggc accaagtga tgagccagac atccaaaagc tcccatacct 120
 ccaagcagt gtcaggaaa ctcttcgtct tagaatggca atccctctcc ttgtaccaca 180
 catgaacctc cagcagcaa agcttggggg ctatgatata ccagctgaga gcaagatctt 240
 ggtgaatgca tggtggctgg ccaacaacc tgcacactgg aagaagccag aggagttccg 300
 gcctgagagg ttcttcgagg aggagtcgct tgttgaagcc aatggcaatg actttaggtg 360

ccttcccttt ggtgttggca gaagaagctg ccctggaatc attcttgcat tgccaattct 420
 tggcatcact ttgggacgtt tgggtccaaa ctttgagctc ttgccttccc ctggccagtc 480
 acagattgac actagtgaga aaggaggggc aattagcttg cacatactca agcattccac 540
 cattgtgggc aaagccaggt catttttagac ttcaccacat gatcatgatc atatgatcaa 600
 tccccctaat nnnttctttt tcttt 625

<210> 8316
 <211> 504
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220092b12d1
 <400> 8316

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 gggggggggg ggcctgtgct gataataaga aacgggtgatg agaagcaa acaccaggga 120
 cacataaaac gcgaccgaga ggacaaaatt agtgtaaaat tgcctagcat ggtaacggta 180
 cacaggtata agatttagga ctaccttaaa gagagagcat agggggccaa taattttagg 240
 ggtaactagg cagataagat acacgaaaca aaacccaaaa caaaaaacaa aaaaggaacc 300
 ccaggcagta gagcagtagc agtagcgccg ccacgtgaaa agcattggcc tgggcttata 360
 agccgccaag ctggcacgag cgctaactga aaggctttgt tgggtgtatg acgcgtaagt 420
 gcgcatgcct tagccccacc taacactgta aacggggcca ttaagatcgt taacgcagct 480
 tagcaaggct aagctaacaa gcag 504

<210> 8317
 <211> 568
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220092c01a1
 <400> 8317

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 tctcttctct ctccaccctc cacatagctt ccaccctctc aacccccacc aacttcatca 120
 agtctctctg cagcaccacc cagtaccag ccctctgcat ccagtccctc tccgtctacg 180

cctccaccat ccagcaagac cccacgagc tcgtccagac agccctctcc ctctccctca 240
 accacaccga ggccaccaa accttcgtcg caaaatgcaa caaattcaga ggcctcaaac 300
 cgagagaata cgctgccttg aaggactgcy ctgaagaaat cagtgcagac gtcgaccggc 360
 tcagccgggc gctgaaggaa ctcaaattgt gtaaggcgaa gggtgaggac ttcacgtggc 420
 acatcagcaa cgttgagacg tgggtgagtt cggctctgac cgatgagagc acttgcgggc 480
 atgggttcgc cggaaggcgc tgaatgggaa gataaggagg cgattagggc tagaatggca 540
 atgtngctcc gttactagca atgctctc 568

<210> 8318
 <211> 507
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092c01d1

<400> 8318

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 tataaaaaact cacaattaca tacaccacac aaaacacaaa attaaccatt aaccaaccac 120
 atagaactgt ttgttctttt tttttttccc ctcaaaggaa aaaacgaaaa caaaaaacaa 180
 aaactttctt cccaactccc cctagtgttg tgcagcatac tgattaataa gcgagagagc 240
 attgctagta acctgagcaa cattgaccat tctagcccta atcgctctct taatcttccc 300
 attcagcgcc ttcccggcga acccatcgcc gcaagtgtc tcacgggtca aagccgaact 360
 caccacgtc tcaacgttgc tgatgtgcca cgtgaagtcc tcacccttca ccttacacaa 420
 tttgagttcc ttcagcgacc ggctgagccg gtcgacgtg tcaactgattt cttcagcgca 480
 gtccttcaag gcagcgtatt ctctcgg 507

<210> 8319
 <211> 534
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220092c02d1

<400> 8319

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 ctatagacaa ttcaagtgcg ctatttatta ctggaacata tgtctgcctg gaatagatta 120
 agattctata gctagcaata agaaaaaaaa gtaagcataa actgcgcccc cttgacaaat 180
 ttgtattagc agatgtcaac aaaaaggaca aatgcaacct ggattcggtc atccactgta 240
 taaccttcaa tttagtaccc tcattattca tgctacatta cactttcatt ttccccaaaa 300
 ttcaaaagaa aaatacagat caaacaagat catcaacaaa taaaccaata ataagcctcc 360
 caaagttcca aaaagactag gaaaccaagt taacaaatta agccttaaaa tatatctctt 420
 ttaagaccct aatgaagatg aagatgttaa tgtgaagaga ggaaggaagc ccttagacac 480
 acgcacacac acacatatat ataaactctg atgagatgat gatatngatt caca 534

<210> 8320
 <211> 586
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220092c03d1

<400> 8320

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 atgatattaa cttgaaaact tcgaccccct gtaccactca attctatttt aaaataggtc 120
 ctaacctaaa aatgtaatac attgtatttt gtcccctccc cactgaagct tctcaaccaa 180
 atccaaaacc ctcaacttget tcgtgaattg ccagcagtaa cctctcttct aaatgggtgtt 240
 tagatggata ctccggcaaa tctaattgat tgaagcaagt atgagcagaa ggcaagtgat 300
 caggacttcc atatgctttg tgtatctgaa acttctggga gcctgaaatt ccttgaagag 360
 cgctaaagcc ttccaaaggc accttggatg tgctgtcac aaattgcaac agtcgagctt 420
 tgacttcttt gctcaaacct tgaacaacct nccaaaacca ttggataact ggcgatgcag 480
 cactatatcc agaattattcc ggatttgctc tcaagtcac caagtcaata tcaggaagtc 540
 cactgatcaa cattccagct ctttgcattg atatcgatat cactcc 586

<210> 8321
 <211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092c04d1

<400> 8321

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gcaaaatatt acattgcata tactctcaat cgaagatata ttgtaatctt taccaattga    60
aattttatga caccaaccca tctatcccat tttgaaaaat tccaaatatg atatacaacc    120
tcaaataacc atagactttc aaatctctaa gctatctaag aaactaaaat gggttctatgc    180
aagggtataaa cctatactag agtaaaattc cttctttctt tacactaaga ttttatcact    240
acttccaaga aacaagcaca tggattagaa gaaaatatga gagaccata ttaccaatgt    300
caccaactat gacctatgcc ctgttgaatg gcttatttag gccacaaagt ctggtagcaa    360
ttgtgcagct aacctcttgg ggctctgcat ggtgatactc tcaaatgctg ctg          413
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<210> 8322

<211> 368

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092c05d1

<400> 8322

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gttcttgcaa agatactttg caaacctgta ctggaagtag ggagactgga agtaatattc    120
tttatgacag aggaaggagg cagagatcct ttgactgaac ctagcttaat tgtatctgag    180
gcaggtgatg cagaaatatg ggtgctattg tcaggtgcag gagttggaga accaatccat    240
ggtccttgaa gggggggttg ggacatccaa agtgtgttat gtccaagaaa attcctcaca    300
ggagtagttt gatcagggtg tcatggagta attgcttggtg gattatccat gacagaacct    360
tttgcaat                                368
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<210> 8323

<211> 521

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092c06d1

<400> 8323

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aaaataaaaa gataacataa attaaaaggt atactaactt tcatcacccc cgtataacaa    60
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09531113-032200

taaatacctt attcgtgtgt tttagacaaa ctattagtta tgctattcta tttcctgggt 120
taaaacatgg tagaaaataa attacaaaga ccaacttgcc aattacaaac agcaggtgat 180
atactcagtg gtagaaaatg tacttgacca cagagaaggc datggagatg tcctgggaca 240
gctgaatgtc acacacaaca tgttcattcc catttccatg attacaaaat tgttgtagga 300
gaaaatctct cattctcgaa gaacttgaaa aaagttcatt attttctgat tcaagaatta 360
tttttcagaa actcatgggt cctattctca catttacgtc atgaatctca ctgagaggtg 420
cacaactatg atttaagatt attttcagaa aaacaagaag taaaatatag taataaaaaac 480
tttagcttag ataattattg gagattattt tagacaattg a 521

<210> 8324
<211> 511
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092c07d1

<400> 8324

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aattatacat atccagacct tgatacaatc attaaaaata tccactaaac tattgtttgtg 120
cctttaaaga tcttgtcttg acacaatttt gagtcaagcg aacaggttct aacaactagg 180
tggtatctgcc aagcaaacac cagggtcagg agaaaaactg aaagagccct tttcaagacc 240
caacgacctt cttttcactt tactctgcag cagtttcgtc actgtcatct ccttcatttc 300
tgatatcagg cagtgtatca agatcgggtc gagcctcggc cacatcctcg tggatatgag 360
tatcagaaga atcgattgca tcttgttcag ctgaatccat agtttcggtg gcagagaaag 420
agtctgatgt ttcacagttt tcacctgttt gtgtgtcacc tttgaacatc tcattctctg 480
tggcatcaac atttggtttt tcatttggtt c 511

<210> 8325
<211> 298
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092c08d1

<400> 8325

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 ttgtggcggt gggggagggg tgggcacttg aggtgatggc agattgcgac tcaggtagca 120
 gaagggataa acgccccggg ataaccccg taactaatgg gctactgact gattgtccct 180
 gtagcttggt aagggagaga tgggaagcta gtaggcaggg tcgccaggga gctagctgag 240
 ggggatagcg agccagtcgc cccactgatg aggggataga ggagagagct gtagcccc 298

<210> 8326
 <211> 435
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092c09d1

<400> 8326

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 gaagacagaa caaataaaga tatcaggaag gtgggggagg ttaaacgtga gtacaaagta 120
 tgattaggaa ttaagtagtg tataatcgat gaacatacca gaaactggaa ggaactccaa 180
 cgaaagccaa aggaatataa aagaagagga tctagttacc ccggcatgag aaactaaact 240
 aacgggttgg gtgtacaaac gggacgaaat agcgcggggc gccactgcaa tggaggacac 300
 cgccaaagaa cgagcccgac cgaacaaaag caggaccgca tatcaatatt ggccgattcg 360
 cacaagggtt ttaagcactg ttttgggctt acaattcatc gattgcttgg taagcgctt 420
 agtgggcagc aaac 435

<210> 8327
 <211> 552
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092c10d1

<400> 8327

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 ggccaacacg ataagtagga aggaggggag gggagggggg gtactacgac ggatcatggg 180
 gccaggggat agagactatg gccttataat atatacacca ggtggtggag ctgcgcgaat 240

gttgccta atggtacgag taagcgtggt tgggggtagg ttggcgccta aggtttacgt 300
 aaaccaagaa acaacaggac taacgagaac agttaagcta ctaaagctta gaggtagatt 360
 accctataag tgatcattac tattcaagcc aagaaatgta aaagtggcgt tagaaacagt 420
 gagcgtctaa gggaaaaatt gtgtaccgag aaatgtggtg ccagtgggtt aacttgacc 480
 agtgtgagca aggccttagc taggtataga gaagaagcgt ggcctgccaa gggtcgactt 540
 agtgaatagc ta 552

<210> 8328
 <211> 528
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092c11a1

<400> 8328

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 gaccggtgct cccggcttca cacgaagccc acaattagcc caacgttggt tctgtcgaac 180
 atgtaccaga ggcccgcacat gaacatgaac atcatcacca accccgatca gcccagccc 240
 caatctctcg accccgataa ggtccaggat cacttcgacg acttctacga agatctcttt 300
 gaggagctta gcaagtacgg cccattcag agcttgaata tttgcgacaa cctcgccgat 360
 catatggttg gaaatgtgta cgttcagttt agggaggaag accatgcagc caacgcctc 420
 atgaatctga ctgggaagtt ttattcaggt cgacccatca ttggtgattt ctctcctgtt 480
 acggattttc gagaagctac ttgtaggcag tatgagggaa atgtatgc 528

<210> 8329
 <211> 537
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092c11d1

<400> 8329

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ttgtctaata accgaaatgt cttctggggg ttagggggtg gttgtttggc cacaatagga 180
 taaggcaact acaaaaggaa aataggcagc tgagccagcg gataacccgt gagtatgaaa 240
 ggcataaggt taaaggcaag aaaaataagc ccaatgcaag ttagggaatg taccctaaat 300
 cataaaccta taaattacag gatggcttat gtggcagact aaaggggccc ttaaattgta 360
 atccgccgcc cctgagagtg cagcaggatt acaggtatgc ttagggggcg taatatgtgc 420
 cgtggcagaa gtagtaggcc gggggccagg ccgttgccga tgaagggttt tggccgttgg 480
 tgtttgcggt taggctgtaa ggggactgtg ttgggtgcta tgaggggtgt gcagtcc 537

<210> 8330
 <211> 535
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220092c12a1

 <400> 8330

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 gtgaagaatt ttaagggtca tgctcagatt cttgagaggg gtggttacac cttgttcact 120
 ccacactaca taacatggtt ttgtccacca cccttcattc ttagcagtca gtgcaagtct 180
 caatgtataa accgtgggag atattgtgct ccggatccgg agaaggattt tggagaagga 240
 tatgaagga aggatgtggt gtatgaaaat ttgaggcagt tgtgtgttca tagagttgcc 300
 aatgagagca accgttcatt ggtctggtgg gattatgtga cagatttcca tgtcagatgt 360
 tctatgaagg agaaaagata cagcaaggat tgtgctgagg aagtcatgaa atcattagat 420
 ctgcctatgg ataaaattaa gaaatgcatg ggtgatcctg aagcagatgt ggagaatgaa 480
 agtgctaaga atgagcaaca ngtcagatc ggtagaggat ctcgccgtga tgtca 535

<210> 8331
 <211> 534
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220092c12d1

 <400> 8331

ttgagcttgg ccgagtagag ttgtcccatg tgtagcatta gcacctgctt gtctttgggg 60
 gggggggggg ggcttaaagg ggccgagtaa gcgtcgtaga gctgcatgt taatagtata 120
 tccagttgga ggtgtaagtg aaccgcgata gcgatatgt aaggtgtaaa aatgtgaggg 180
 ataaatgcgc caaaagacaa ggaggttggc gacaaaaggg tgcggagcga ggctaagcgg 240
 tatagaagga gttgatacga aaagatgcag tggttggtct gcgtaaagcc aggtaaagtt 300
 agagacttac ggtgagggag aagttggtgt gtaacgccag gagctacgt aatcccggtt 360
 gggcatgagg gggactgtag gagcgagcgt ggatattctc ttggcggcgt cgaaacctgc 420
 actggtacta gcaatgatag gaggggctgc cgttacgcct agcgaggcgc atagcagact 480
 tagcagtga cacgttagcg aacattccac ttgagagggc gacaatatcg aatt 534

<210> 8332
 <211> 515
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220092d01a1

<400> 8332
 ctagtttctt aatttatcac tccgctcctt cctccacct atttctccc ttgttcgctt 60
 tccaccatc aaacaaaaac agagtccca cccctctctc ttaatttcat tcatcacaac 120
 aactagcta gtgtgtgttt gtgtatcatt ctcataaaca cacatatagt aaatccatca 180
 caccctactt tgagttccca ccttggtttt ggatttaagc tatggtgtaa ggttactttg 240
 cgtgataaaa atttctgggt gtttacctcc tagattaact tgatttccta atcaacgaag 300
 acgtactgat ataacaagaa catgtgcgaa tcanaatcag agcagatgca tgatacgga 360
 aagcagacag aattaggtgg gttattaaca ngacgaggtt cgactaggac aataatgtgg 420
 gatgtgatag gagaagcgaa atccctgtgg gaggtggcat tcccgacagc actcactggt 480
 ctaattttct acgcgcgttc catggtctcc atgct 515

<210> 8333
 <211> 481
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220092d01d1

<400> 8333

cacaaattcc ctttaataat aagtaagaat tattacaaaa gaaaaagaat attacaccgt 60
 caatcaacaa tcatcataat tttttttttt atttcatcaa gagtagttgt tgttgtccaa 120
 agtggcaatc aacggttggt tgtggccgtc ggatccttca tcaagggccg taagtaactg 180
 ggcccgcag gcttggtact cccaatcggg ggtcccaatc atatacaaca tgaggcccgc 240
 acaacaaacc tgggcccaga ataggcccag ccagagccca cagaacccaa cctcgagcca 300
 gaacgcaagc ccaactgcca cgggcatccc caccagataa aacgctccca ggttcacatt 360
 cgccgncacg ttccggcctcg ccgtccccct caccaccccg caccacccg tctgcgggca 420
 gtttcccagc tcgcacagcc ccagaatcgg taagcgccgc cccgtcagcc gcagaatccc 480
 c 481

<210> 8334

<211> 551

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092d02d1

<400> 8334

gaaccactaa attatagcta attagctaatt tatccattaa aactgtcag agcaatccga 60
 atggaaaaaa agagaaaaaa catagccaac tccgttccgc atgatataaa agcttaatca 120
 acctcctcca ttttgctgcc ctcagcatca gcttcagcct cctcctccag tgggggcata 180
 tcagcatcag cttcagctgc atcctcgtcg atgtcagtc caagcttcaa cattctgagg 240
 atcctgtttc caaaagtgtt gggttcctca aggetgacac cagaagtgag aacagcagtc 300
 tcgaacagca actgaacaag gtccttcacg gatttgctgc tcttgtcagc atccgcacgc 360
 tttctgagct cctccataat tgggctctca ggggtgacct ccattgtctt cttgcttgac 420
 atgtatcctg ccatgctggt gacccttagg gcttgagctt tcatgatcct ttccatgttt 480
 gcagtccaac cgtattctcc agtcaccaga cagcttggtg aatcaacaac acggtcccag 540
 actacaacct t 551

<210> 8335

<211> 532
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092d03d1

<400> 8335

ttgctgagct tgtgaaccac ccagagatcc agcaaatggt aagggatgag attgacagag 60
 gtctgggtga cagtgaccaa tgggttcaac atcctactac gaaagacaaa gttaacatac 120
 aaataaatcg agagcccgtc atatattata gtatgaagaa taaaataact gcatctaacg 180
 cacatacaac aacaacacag tttcagactc tttgtaaatc agctgaaagg gcgtcccgga 240
 tctcagccta agggctaaac gaatggcaat cgagctgaag ctttctgtgt aagctctcca 300
 gtaccaagct caaccacaag ccataactgc atgaatgcaa cggtattgac ttttggatcc 360
 atatcttcgg tgctgccgga aaatgcctac ctggtatcat actgggcatg tccctgccag 420
 gctagatttt gcgaacacaa gtggcattag atttgcttgt gtcaatccat cgcgtgatca 480
 ctcaagcctt tatgaagaat catcttccat tgtccacaca aaaccaggca tg 532

<210> 8336
 <211> 431
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092d04d1

<400> 8336

accaagcaat ttcgaataaa tggtcacaac ttcacataaa gtcctaaaag taccggaaca 60
 aggcaagttc cacgaaaaga actaccatac acagagcacg aggaacacacaa aaacaacaca 120
 gacaaagtaa cataacagtg caaacttcta atcaataatc ttctccttca tcaccatctt 180
 cttcagttgc ctctgcaccg acttcctcat aatctttctc cagggcagca agatcttcac 240
 gagcctcaga gaactctccc tcttccatac cctcaccaac ataccaatga acaaaagccc 300
 tcttggcata catgaggtca aatctgtggt ctatgcgaga gaagacctca acaacactgg 360
 tgggatcgga gatcatgcac acaggcctct gaacccttgc atgatcacgc ccaggaacaa 420
 caagttgagg c 431

<210> 8337

<211> 343
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092d05d1

<400> 8337

gggggaaaac ccctttgggg gggaaaaaaa attggccctg accaccccaa caggggcttg 60
 gaatgaaaga cccccccatt atttttaagg tccagaacga cccccccgat aaaaaaaaat 120
 agaaaaaac ccccgatata cccccggaaa accccccatt taaacggaaa agaccctta 180
 ccaaagcccc cccctaatac ccatggggcc acaagggggc ccccaaacg gaaaaaat 240
 cccccccct tttccaactt tgccccccc tgtttaattt tccccaccct tccaacgtt 300
 tctgtactgg gaacgttggc ccaaaaaaaa ggggccaccc ttt 343

<210> 8338
 <211> 544
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092d06d1

<400> 8338

ggaaaataaa tggcaatttc atttcattat catgtccagt aaaaccattc caacaaacca 60
 aatgcaactg taatgacttt tacaacatct ttaattcaag tgcgtaggtg actcaccagc 120
 actcaaacat atactaaagt ggacatatgt gatacaacta tataaaccac tgctcccgaa 180
 cttactat 120
 ttaactaagag ttttaacattg tttccctcta atagtaactg agtccattta 240
 ctttaaat 120
 ttatgcagtt ttttaatcccc cctctccctt tcctctcttc gaactataca 300
 tgatttcctt acacggtgcc gacaccatt tatcatggga caagaatatt acctgttgca 360
 gttataacat tacatgggga ttcaacgaaa agtaccttgc tcttcacaaa aaccagtgc 420
 atgatttagg gaatctgaat atatccatga gaccaagcct cttcccatat tctataacta 480
 accaagccac aaaagataag tatgccaaaa gataacaagc gcgcctgatg agaacagcat 540
 tgac 544

<210> 8339
 <211> 543
 <212> DNA

0953113-032200

<213> Glycine max

<223> Clone ID: jC-gmf102220092d07d1

<400> 8339

gcagcaaaat tcttattatt ttcaatactt aactgatggc aaattggcaa tgcttttgat 60
tttgcaaata ctagcaacca tctaagccgg acatttttaa ctgctcagcc cacagtaaga 120
aaattctgta tgatggataa gataagccaa cggctacacc atgacaaaca ttactactgt 180
caaactaaat aaacgacact aaccgaaatc aaatatcatt ctcaataatc aataatgtgt 240
gagatcaaat caaatggctt cacttatcga ggaggggaag ggggagggcg tggcaggttt 300
gattttgcaa atcccaccca tgcaacaatg ccgactgcc gaattatcca tccaaatatg 360
tcataactca gatcactgct cttctttttc ttctgagtct gaaaaataat caaacaaaat 420
aggtaatgaa tgagcacaca agtacgaaga tcagagtcta tctatctcca atgtgatttt 480
tgtagcacia ggagtgttta cccaaaatgc agatatcata aataactagc agtccaagag 540
cca 543

<210> 8340

<211> 160

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092d08d1

<400> 8340

agtggccgga gaatttgccc tgctacacgt gtgcactagc accttcttgt cggtgggggg 60
ggggaaatcg gacatagtaa tagaaagttg gcataaacgg ctggcttaca tgaccgggct 120
gataatagct aagaggacca accagctatc aacgatttcc 160

<210> 8341

<211> 583

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092d09d1

<400> 8341

catgcggggg gtttgctggg tacatgtgta gtagtaccgc ctgcttgggg gggggggggg 60

gcagtggcac tgaggaatta agtggcggat aacgttagct gtgaaaaagg tagaggcgac 120
 taaggattgg gcgcaacaag tacaccggaa aagcacgcac ccctagctta ttgggcggcc 180
 taagttggcg aggagaccta gaacgatgaa gaaaaccagc gagtacgcgg taattattgg 240
 gttgtaaagg ccagccttga atggtgctac cctgaaagca gttgtgttta atattgtcac 300
 cctgggcagg gttgtgcaca gcctggagtt caccctgcga gatgggagtg cgcacttggc 360
 catggcggaa tgtggcccag accgggccac gccagggtag tattgggcca tgctaaatat 420
 cgtgaattgt attttcctgg tcacgaagga ggttagtgaa aattgtgtta gtagtgctaa 480
 accaactgcg ttgctgtaac gttttggtac gtatgaacgg caagccgaaa ctgacgatgg 540
 tggtagaggt gctaatagtg aaagtggcaa gcgcgctgtt ggg 583

<210> 8342
 <211> 534
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220092d10d1
 <400> 8342

ttgccaggcg atttgccgct gctacatcgt tggagtgccg cctgcttggg gggggggggg 60
 gggggggggg gggggggggg gggggggcaa acgaaagtgt ttagggaggt aaagctaaaa 120
 cggctaaatg gctgataggc ctaacgcaaa ggggtgggtga ggcagagttt ataatgggaa 180
 ttccagacaa acgaaaagtgt gttagggagg taaagctaaa acggctaaat ggctgatagg 240
 cctaacccaa aggggtgggtg aggcagagtg agacgggggg ccacctggcc tggcccaacc 300
 ccagcggatga gcaggacggg tacggatgtt tctacgttcg tgggaattaa ggtggtgaac 360
 ttgggtggta cgtgggtgct cctactgtgc tacgtaggtg ttcgtaactt gttaaagcaa 420
 aggtgaacag gctgcccata attatagctg gggttgccca ggatgctaata tttagctggc 480
 ggactgactt actcaataat agtaaaagta gtcgcactcg tgaacgtgcc cact 534

<210> 8343
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220092d11a1

<400> 8343

ccgcctctgg tctcttctct tctcgcaagc ggagcccca tttctccttc acgaacccta 60
 attcactctt cccattcgaa atctcgatca ccttttcgat tcaacctttc tctcctcgct 120
 aatctcttcg ttgcctcgc acatcaaggt gaggggattg aaattgaatc ctcagaaggc 180
 cgcttccggc gggagggggtc ggatggctgg caaccattgg ggtcaccgga agggcagggt 240
 ctaaaccctt gggatatatg caaagtcca tcggctatga tccttatgca cccaataggg 300
 aagacaggaa ggattcttct caaaatctgc caaatgcaga gcctgatgct gagaatgcat 360
 atgctagctt ccaggggctt ctacagcttg ctaagatcac aaatgctgan ggggatgtat 420
 c 421

<210> 8344

<211> 569

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092d11d1

<400> 8344

tgccagcaat ttgccgctgt acatgtgtag cagtaccgcc tgcttggggg gggggggggg 60
 gggggggggg gctaaaataa ttacttagca atggaagtgt aaatcacacg aaaacgtaag 120
 agacgtacac gagggcaata gttaaattgt caaagtaact aaactaaccg ataagggaag 180
 taactagagg agaccgagag cagatagcaa aagggacaaa tagtaccacc tagaaaaggc 240
 atgacatctat gaagtaggta gtagttttag ccgcacccctg ttggtgtggg ttgcaggag 300
 gcatagtttg atttggttgg caagtaggag agttatggca agtacgcgta cagcagcagc 360
 acctttgttg cggtgggtct ggcgcttggt gaagcaaagt ggtacaccaa gtaccagtgc 420
 agacatcctg gtgttggtgt tgtggtgttg gttgatgtgg gtgagcttgc tctggagatg 480
 tcgtcgtggt agtgcaacaa ggcgtttgtg gttgttgccc ggtttcttgg tgtggttggt 540
 gctggtgggt ggtattgcaa gtagttcaa 569

<210> 8345

<211> 503

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092d12a1

<400> 8345

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aaacaagata aaaaaatcat gttagatatg acttctagat agttattata tattctaatt   60
agtaatttgt gattggatca cgacataaaa attctttaac tgtcaatgca aacattatct   120
actctttttg taattagaat agaaaacttt caaatgaacc cctgaacaaa gggatgtaac   180
atcctgaaat taattgaatg tgaagagttg gagatgagct tattatcggt taagtgggct   240
atatgctgct gctagtatgg tgacgggacta agcacaatca tgtaactagt tactaactat   300
tggacccatc taactaacc aatatgtggt agtaataatg aggctatgaa ttgaaattg   360
ttattgaatt gattgtatat ggtgtggact tgcaagttgc atcacaacca aggagcttgg   420
aactgttatg cgttcattgg ggcaaaaccc aactgaggca gagcttccag acatgatcca   480
tgaagtggat gctgatggga atg                                           .503

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<210> 8346

<211> 477

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092d12d1

<400> 8346

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tgaccttgcc ggaggatttg ccgtgctaca tgtgtaggag tgccgcctgc ttgggggggg   60
gggggggggg gtatgaaaac attaaccaag aaggacggtg atgtaggtat agttagagtg   120
gaccacaagt tagagtatat aagcctgggg taacgaaatg aacagctagc gtaaagagta   180
gtataagagg tagtagtggg aaaaaaagca ccacgcctac aaacgcaaca cataggaata   240
ggataatttg gggggggccag aaaaggataa cataaatgaa caaccggtac ggttatgata   300
cttgacgact accatggctt atgaaggcat aggggaaccg gccaggtaaa aattagtaaa   360
gaaaaagcga ccaacaacaa accgtaacca tgatgatagt atgcggagat tatttaaatt   420
tggccttggt tggtgatttt gggggggcgt cgggttgggg aagtaatagg gtggtag     477

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<210> 8347

<211> 587

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220092e01a1

<400> 8347

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ttagaatttt gtattttttt tataatttat ttaattattt tctccctaca aaatcttgat   60
ctctctgctg ttgtggagtg gtgttggtgtt aatctcattc acacattcac agttatactc  120
tctctctctt tgtegtttgg atcactgata tcatctcaat ttccagatat gtcgacatct  180
gataagccag aagtgggtgga aaggggtagc aaggatgaaa aacacaagga agatgatcaa  240
gaggagggga aggggtggatt cattgagaag gtgaaggatt tcattcatga cattgggtgag  300
aagattgagg aagctattgg gtttggggaag ccaactgctg acgttactgc gattcacatt  360
ccatcgatta atcttcacaa ggcagatctt gttgttgatg tgctcatcaa gaacccgaat  420
ccgggtgcaa tccctctgat tgacatagat tacttggttg acagtgatga aaggaagcta  480
gtttctggat tgataccaga tgcgggtacc atcngtgcac atggagagca gactgtcaaa  540
attcctgtca ctttgatnta tgatgaccat caagcaacat atgctga                    587

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<210> 8348
 <211> 454
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092e01d1

<400> 8348

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caatagaact gtttgattta taccagcagg ctaatagaaa ccacacacat gacacaaccc   60
tcaaaagaag ccatagtcaa ttctcaattc cggaatgaca aagcaaaacc ccacctttta  120
gataaaataa ataaaaccgg ccacacacaa agttccaagg caaatgatct tttatctcgc  180
attaaaacag cactagattg gcatgatcat caattaagtc caacaagaaa gtttcaagag  240
aaaacacaag ccggactgca gcagcatata ttacttaaaa tactgatact agcacataat  300
ttgaatggct atttgaactc tcaagatcca taaaatttgc ccatcagaac tcagaaagta  360
atgcctgctt ttattaatag ctagtaatag cctgctacaa ttcttcaatc ctcatcatcg  420
tcatcgtcat cataatcacg atcttccttc tttt                    454

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<210> 8349

002200 "ETTES"

<211> 553
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220092e02d1

<400> 8349

aaaagaaaac aaaaatacat gttaaacaaa ccatcaagta ctccaaatta caaatagcta 60
attaaccaac aaaaagtaca aacacaaatt agtatgccag aagatctaac tgaaaatgga 120
atgcttaggt cctactctag cacaatctcc aaaatttaac taagaaatag attttttgta 180
ttgtaagttt cgtattattg cccgagtaat tcagtcatac aacatgacca catgggaaca 240
attaaggcaa cgccaaggga tgagggtgaaa gcagttcagg tggcacaaga gtaaagaaca 300
taagaaaaaa tcttacacaa cagcatggga gtttttgaag gcaacaaatt agctccaagg 360
gcccttcttt cctgatgatt catcttgatc acctatacac tgcagagatt atgcaatggt 420
tgtgtgctcg aacttattat caacaatttt ggctttgttg gcaaacctaa tttatgctcg 480
caaacagcca gcttgtgata gactcgtcaa catctcaaat ggtatacaga gtccatgcag 540
caacactggg tta 553

<210> 8350
<211> 420
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220092e04d1

<400> 8350

aactggagaa aattggtaaa tagaattttc ttttctaata ctactatcat gaaacaattt 60
cattgtatta ataatgacat atatcataat tatttttagtt tcgttcaata tcaccgaagc 120
ctaggacaaa tatgcggatt cctttggcat ttaggttaca aagcgagtat cccttgatta 180
gttcaattct tggtttgat cagtccactt cgttaaatgc aattttgctc tttcagcctc 240
tttgtcccag tcgcatcgaa ttgtaatgag gctcaatatt aatgtctgag ttgctgtgcc 300
acaaaaaatc atccctgccc agattcccat aactccttga ttgaagaccc aacctatcaa 360
aattccaaga ggcaccccaa taatatagta gcaacccaaa tttatgtatg caacatatga 420

<210> 8351

<211> 477
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092e05d1

<400> 8351

agggtacata gaaagcacca tattttatta gaataatggc catgtacatg tacatgtacc 60
tgtttaaaaa taattatgat tacataaaaa tcagtattat atatatcaaa acatttttca 120
gggattaaat gatgggggtg aatcagtttc aggaggataa aatatctgat acatttttct 180
atcgatgaag ttctgtatg gacctcctc cctcttcttg atcaagtaat ttaaattgtg 240
ttcaacttct gacttaatct gcaggtacat ttggttgga ctttctctgt cttttagcat 300
cttatccatg ctttttggtc ttatgggctt cccaaataga aagtaaaagc gacctgggat 360
ctttggtaga agcaccggaa aagagagatt ttggcttgcc accttgccac ttggttcac 420
tctaaactta actgagtcac ggttcatatt tcctatttga tcgttgacta tggggat 477

<210> 8352
<211> 530
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092e06d1

<400> 8352

ataattacca acacatgtca tccctcatat ttcttatata agcaacacac gttaacatca 60
ctgttttggt gtgagcaagg tttcagctcc caacaaaaaa acacaaggac taatccgtga 120
aaataagatc tatttagggg cttcactgag tttttgcatg attcctattc acagttttgc 180
acacactttc tttggtacac aaaccatctt aaaggccttc aacttctcta cttccaatcc 240
aaccttcaag ctgtagcaga ccacccttgc attgatcacc atttcacat gatttggcaa 300
cagcaccaac tgacacttgt tcaccacttc ctctggcaaa gaccctgatc cacaacgggt 360
aaagaagcac cccacagaag ggtgctccaa aatgaactcc tgattaggaa cacatccacc 420
acacacaacc cctcttcctt caactctctc cttaaacctt agtggaagaa ctgattccac 480
aactcaaaa tccttagggg gtttaagtgc ttgcaaaaat ggcatacctg 530

<210> 8353

<211> 564
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220092e08d1

 <400> 8353

 tgccgggaat ttgccgctct acacgtgtag cagttagcgcc tgcttggggg gggggggggg 60
 caaaaactga gtattgagtc gagagagcga gtgagagtga gagaaagcgt agagggcata 120
 ggcaaaggga aaccatacag acaaagagaa ccgtaacaac cacggaaaaa aaaacaaaaa 180
 caaaccagga aagagaaccg taacaaccac gaaaaacaaa aaacaaaaaac aaaccgggga 240
 aatccagcgg cagagagcgc atagtacatg atgctactgt ggttcgggaa cggacacact 300
 gcaaacttat ggccgggtaa agtggcagta ttagttgtag tagggggatg tggctaacac 360
 tacgactaac tagataagag aactgcaaga actttacaca ggctgttcag attaggctgc 420
 agtaccatag aaaccgtaaa gcccgccagc aactagagc ggcgttaata tctattagga 480
 accaacggac ttacacacac ttacaagcct agcgagggta tatgtgtgac ggggagagat 540
 tggcttagaa ggcaacaac ccac 564

<210> 8354
 <211> 573
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220092e09d1

 <400> 8354

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 agtgggactg agtaacagcg gcgtaaataa gagattagtg gctaggcggt aaagtgtgtaag 180
 attaagacta ctaagacctg taaaagtacc ggggggaagg gtaaacgacg taccggggcc 240
 aagcgttgca cctgggttaaa gggttgaga actaccaggg gtaaggacgc ccctagctta 300
 ggggttgggc gaactgccag gttgtgtag gcctgtgggt tatgtattat aattccccct 360
 gctggtatag gggcccggtg taagtgggcc cctgggttag gtattagttg ttgtagtcgt 420
 ttaagtggtg ccggggcggc ttgtgccagt agtgagtgtt gtaacggtag gcgtttagtt 480

ggtaacgggt gtactggtgg tagtaataag ggtaaacccg ctaggtgtag ttacgtagt 540
gcctgggatg ctatgncacg tgccaagggg tgt 573

<210>	8355
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<212>	DNA
<213>	Glycine max

<400> 8355

<210>	8356
<211>	519
<212>	DNA
<213>	Glycine max

<400> 8356

<210> 8357
 <211> 274
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092e12d1

<400> 8357

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 ggggggggggg ggggggggggg ggggggggggc caataaccct ctagaaggga ggaaacttat 120
 caaacacaaa ataatagacg caacgtgtgg atagcatggc ggcatatata ctgcaaataa 180
 tagaaacgca actgacgctt ttgagggcaa tctagtggag gatagagaca gacagaccac 240
 taactgacag gcggcaaaac gcaaacaatg atgc 274

<210> 8358
 <211> 513
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092f01a1

<400> 8358

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 ccagctcacc gacgaccaga tcgccgagtt caaggaggcc ttcagcctct tcgacaagga 120
 cggcgatggt tgcattacta ccaaggaact tgggactggt atgaggtcac ttggtcaaaa 180
 cccaactgag gcagaactgc aggatatgat aaacgagggt gatgctgatg gcaacggaac 240
 catcgatttc ccagagttcc tcaacctgat ggctcgcaag atgaaagaca ccgactcaga 300
 ggaggagctt aaggaggctt tccgtgtggt tgacaaggat cagaatgggt tcctctctgc 360
 agctgagctc cgccatgtca tgacaaatct tggggagaag ctgacggacg aggaggtgga 420
 tgagatgatc cgtgaggccg atgttgacgg tgatggacag atcaactatg aggagtttgt 480
 caaagtcatg atggccaagt gaggaccatt cca 513

<210> 8359
 <211> 463
 <212> DNA
 <213> Glycine max

002222-032200

<223> Clone ID: jC-gmf102220092f01d1

<400> 8359

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tagggagcag agaagtagta gcaattaaag caaacaagaa aaatagacac tcaactaaca 180
aaacctaata accccaaatc aagatggacc taatgggaat agaattctca tcaaaactta 240
tctgccctgt ccctcttctc tttatatgct tttcaaattt aggttatggg tggaatgggc 300
ctcacttggc catcatgact ttgacaaact cctcataggt gatctgtcca tcaccgtgaa 360
cattgggctc acggatcatt ttatccacct tcttgtccgt gagcttcttc ccaagatttg 420
tcatgacatg gcggagctca gctgcagaga tgaaaccatt ctg 463

<210> 8360

<211> 512

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092f02d1

<400> 8360

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tttgtatctt agaaggagca ttattcaaaa ttgaagctac acttctatag gcaaaacatg 180
ggaacctact aacaaggaca gtagacaaaa agcaatgggtg tctaatttag gcatgagtaa 240
gccaatgcct tctcctcaga aagctcttct gcagtcaagt ccaacttctt ccttgagaac 300
tcatcaatgg aaagtccttg aactattgcc cattccccat tggcacaagt gacggggaat 360
gaatatataa gtccagctgg aacattgtag gaaccatcag aatatactcc cattgatacc 420
caagtgcctt gaggagttcc aagaaccag tctctaatat ggtcacaagc agcactagca 480
gctgatagtg cacttgaaag ctttctagct tt 512

<210> 8361

<211> 368

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092f03d1

<400> 8361

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ggatcccat ttcaaaaatt tgggtggccaa ttgatggggc ccaactgggg ctgctgatat   60
gcgccaacct gtgccccagg agcagctgca gccaccccaa cttcgacgtt gttgccaatg  120
gctggggggcc ctaaattgggg aggactaccc atggctgctg gctgtggagg agtgtggggc  180
atgccgggga actgcatgtg aaaagactga gctgcagctg cattaaagga agcatgacct  240
gtgtgtgatg gcatgtaagc tgcattgagg gtttgccttg gcatgttata gtatggagta  300
gattgcatgc caagaaggct ccttggattc tgtgaccaga tttctgatgt ctcaacctga  360
ggatttgg                                     368

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<210> 8362

<211> 458

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092f04d1

<400> 8362

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tctcgttgtg aaaatctttt catgatatcc taaatgttga cattttgaga gcttcgttag  120
attacacact aagtgataac gtacaagggt tgattattgc gaagtgcac tcagaaattt  180
taccactaaa tgcattatgat cagattcgaa cttctatgcc ttacttgaac aaatgctctt  240
ttaccgattg aataggcacc tttttactgt gaaaaatgcc atcagcaagt gctgctgatg  300
catttgtttt gtcgaacacc tcagagaagc gttcaggaac accagcaccg atacatgcga  360
gtacagggat acttacagca tctgatatca acttaattaa atctacatcg aatcctttcc  420
cttgaccgtc gcaatcaatg caattaagtg gtatttca                                     458

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<210> 8363

<211> 356

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092f05d1

<400> 8363

gcatcgaaca atatattaaa attaaactaa taaatgtaca ttaatagaag aaaaaaggca 60
 gaatgaacat ctttgtacaa gttcgaatcc acaggggatc caaacacttt caattgcttc 120
 tgttctgata catctttcac tacacatcat tgacctgtat atcagatttc taaaataaca 180
 tcactaagca caattttcac tgcctattcg tcaacgtctt cctcaaccct ttgataattt 240
 tctgaaaacc aaatcacggt cataactgat agtgccagtg gcacaacaat aactaacact 300
 tgtgcaaacg cgtgcatatg gtcaatctgg cccaagtgcg agtagacctt gtaaaa 356

<210> 8364
 <211> 286
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092f06d1

<400> 8364

cccaaaatgg tcattttatt aaataagggg caacttcagg ttacacaacc atatggttct 60
 tcccataact ttcatatgaa cctatactaa agcctacata attaagcatg ctacacaagc 120
 gggaccatga ccttagtttc ccccttttta atatttattt tttaccccag actttattca 180
 agagcccttg tacaagagcc ttaaaaaagc aatttttagc cattcccttt tcggggtcacg 240
 ggggccttta ttctaact ggtaacataa acattatgcc ccaacc 286

<210> 8365
 <211> 262
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092f07d1

<400> 8365

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 gaaaaacgaa gacagaaaaa agggagaaaa acaggggaag gcacagagag gacgcaccga 180
 aaagacagaa caaagcacgg ggacagaaaa agggggagaa aaaagacaaa ggagggaaaa 240
 ggccacaaaa gggacaaagg ga 262

<210> 8366

<211> 192
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092f08d1

<400> 8366

cgacgggcga tttgacgctg gctacatcgt gtagcagtag tacctgcttg ggggtggggg 60
gggggggggg ggggaaaaaa gtaccacgt gtgccggag gaaggctgtc gtattagaaa 120
gaaaatggca acggtagagc caaacgatag agcgtactgt attcagggtt ggttggttg 180
gcgcatgcat gg 192

<210> 8367
<211> 456
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092f09d1

<400> 8367

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gggggggggg gggggggggg gacaatttaa aaggggtgga atggtcgact aagaatacta 120
tatcacagt ttattagtag tagtaagtaa tttaaagtgc tgccactaaa aaaaacaaac 180
aaggatagga aacaaaaaat taacaaaaag cacttagttg accatggata gggacaaata 240
acaaataagt agcataataa tgccaccaat aaaccgcata attgtaatgc ccgcttgggg 300
taaagtatg ccatgtcaac tagtaatcca tcgcgttcat catttgcaac cacaagtact 360
acttttactt tccatagggg gtgttcttg ccgtccgctt ccacttgtgc ttccgcaaat 420
aattccgctt cggctcttca aaactggtag gccaac 456

<210> 8368
<211> 528
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092f10d1

<400> 8368

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0953113-032200

gggggggtac ggcaaataa ggcagggaga agaggttcgt atacggattc ggtagcagaa 120
 aacgagaaca aaagagatga aagctagctg accagatggt agcacacgac aagaggtgag 180
 agaagaagct atactgttca gcaggagggg ataggcactc gagtgcgctg tcaatcgaga 240
 ggatcctgga tgtgagaagc tatataatgt tctgtcactt caaggttcac tggatcgatc 300
 tcgctagctc atcgtagact gtggtgagac gcgtattgaa aggtaaggta tgccttcgtc 360
 ggggataatc gtcgatgcc caaaatttgc ctccgattta atggaagtct tggctactat 420
 agtttttggg tcttactgcc tcgaagactc aacacctttc tattcagtct ttggtttaat 480
 acggctctac ttgcaagcct caagcccatc tctttgcgag tcctctag 528

<210> 8369
 <211> 499
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220092f11a1
 <400> 8369

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 gagtaacacc ttctgatcct cgaaaatcac ttctcaatg gggcttccat ttcctctcct 120
 aactcacag gctcaaccag attaagaaaa ggtcaagtgg ggtatatgca tcactatccg 180
 agagagagag aggagagtat tattcccaga gaccgccaac tccgctacta gacaccgtca 240
 actatcctat tcatatgaaa aatctctcta ccaatgagct gaaacaactc gcagatgaac 300
 tgcgttctga tgttattttc agtgtttcta gaactggggg ccatttgggc tcaagtcttg 360
 gtgtggtgga actcaccgtt gcactccact atgtctttaa tgcccctcag gacaagatac 420
 tctgggacgt tggtcaccag tcttaccgcg ataagatact caccggtagg agggacaaga 480
 tgcataccat gaggcagac 499

<210> 8370
 <211> 465
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220092f11d1
 <400> 8370

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 gggggggggg gggggggggg gggggggggg gggggggggg gggggccggg gggggggggg 120
 gggggggggg gggggggggg gggggggggg gtttaaaaaa ccctaaaagg ggtttttggg 180
 aaaaaccccc ccaatttttag cccaatttcc ccagaggttt taaaaaagcg cttacccgca 240
 ttacactggg aaaaaggagg atttttcccc ccaaaaagcc gtgcttgccc ttaatcccca 300
 accccaaaaa gccttttttt aaggggggga aaaaatccct ttggcccctt ttggggccgc 360
 cttttaaggc cccaattttt ccccccccta ggcccaaacc cccaattttc cctaaaaaaa 420
 agcccctatt accccaattt ccccccaaga aattttttcc caaaa 465

<210> 8371
 <211> 549
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220092f12a1
 <400> 8371

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 agatcaggat ggctgggtgtt tcttccatgc ttcttttctt tctatttgta atattaatat 120
 ctcaagtcag tgcccagtta agcgtaacct gtgattacag caaggtcgga aattacacag 180
 caaatagcac ctataacacc aatctgaaca cccttttatc cactctctct tccaacacag 240
 aaattaatta tggtttctac aacttctcac atgggtcaaag ccagataga gtcaacgcca 300
 ttgggctctg caggggagat gtggagccag ataagtgccg cagttgcctc aactatgcca 360
 gaagcaatct cacacaagat tgtccaaatc agaaagaggc aattatacat tttgacaatt 420
 gcatgttgcg ctactccaac cgcacaatat ttggccaagt ggaaaatttt cctgggtctct 480
 atatgtggaa cttaaagaat gcaacggacg tggatgagtt caatcaagtg ctcgcaaact 540
 taatgagga 549

<210> 8372
 <211> 510
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220092f12d1

<400> 8372

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 ggggggggta cgggaaataa accagcgcgc cgcgaggaa ataacatagg ctaacagtaa 120
 aggatagcac ggtgaatacg gcgaggggcg ggaacactcc aactagacag cagcaagcaa 180
 gagtagttgt ggaatgacaa gtgattcact cgagactgta cggaggcaac ttgtaggggt 240
 gcaggtggca ctgcaggaa ggagtcaggt atggcagttg cgggtttggc acggcgatgt 300
 ttagcatgct agcgtgccaa catggttacg gtgatgcggt agagaaaagc taccgggcct 360
 cccaaggccc acatggacac aagactgagg gactagcact agaagccgac ttagccggcc 420
 gtgcgttctg aaaggggtggc aatataaacg gaattaagag ccagatagtg cagtagggta 480
 gggtcgcaag gcggcnggaa gcagccagtg 510

<210> 8373

<211> 504

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092g01d1

<400> 8373

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 ggcaaacctg attcaactaa aagaagatta cataatttaa caatggactt tccacaaacc 120
 gctaagacat gaatcacatg ctttcataga taacaattag aagataatcg tggcttaatt 180
 aaaatctcaa gtggagtagc tttagtcttg cctaattcaa cggtttcagt catatcaata 240
 ggttcatttg atggatttaa gaatgaaaaa gaatgaaaaa gactggcaag aatcaaatga 300
 accatttgaa ggctaaagga tattccagga cacactcttc taccaccacc aaatggtaat 360
 agtcaaaaat gatgtcccct aacatcaatg tctttatggg tggttagaaa cttttctggt 420
 ttgaactcta atggatttga ccaaacta agatctgtgt ggatcttcca aatatttgga 480
 attagacgag ttcctttttt gaca 504

<210> 8374

<211> 508

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092g02d1

<400> 8374

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catttcttgc tccaaatgac aatgtattca aaggcataac acaaattggtt atgtaacaat 120
agagaccctt ggcttataag aaatcaaacg gccaacggcc aaagcgagaa taaaccgtgc 180
ttacattccc aagcatgaag tgctgagcat tacctatttc caaaaggaga ctagccattc 240
ccgctaccaa gacaatgagt aaccgaagcc tttaagcaat ttgcaaatac attattctca 300
ccaaggatta cctaccggac aaaacttatg cagtttctta gatgcgtttg gtcttttctt 360
ccaacaggat ttgaagtttt accttggtta tccaaggtta taatgatata aaactccaat 420
tctgatagga gaacaccacc aaaagcacct atgtaactac ataaaatttc gtccctacct 480
accaagtacc accacacctt catcaaac 508

<210> 8375

<211> 181

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092g03d1

<400> 8375

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gactaatatc atgccttggt ttatcatata caaattgcgc ctctccctgt ttgacagac 120
tgcttatcca tttttctaca gaatgccata aggcgctcga cttatgtctt aattacagct 180
g 181

<210> 8376

<211> 496

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092g04d1

<400> 8376

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ggtttattaa tgacaaatac aagtacattc agccactcca aatacataac ttaaacatac 120

[illegible]

ataaaaaaaaaa	ttgccccccct	acaaacaata	aatctcaatt	tcatttggaa	agggcccccta	60
ggaattgccc	cttaggacat	ttattcccag	gtctatattg	gttttaaaaa	ttttggttta	120
acgccttgaa	attttttgaa	aaaaaaggcc	ccctttcctt	tttcaccttt	tggggacgca	180
taatccccct	taatggccaa	aaaatttacc	ttattctttg	aaaaccttgg	gtgccc aaac	240
agttgtccaa	gggtcgcttt	ctgcaatgac	ttcaaaagg	tcataaacct	tgggggtttga	300
actttcttca	cttgggcttg	gatcaacagt	tttaacagaa	gcatttccct	ccctcttttct	360
tgagctaccc	catttttct	ccaagggcca	gggccttat			399

catcatataa aatatatatg ttctgaaaga acacatacaa gtacacaaaa aaaaggggga 60
aatcataaa aaaatacaga aaaaaaaaaa cagaattgag taagagggaa ggaaacatag 120
agaaaaatddd agcaatcaga taataagaag ccagtagtag tgcaaaaagtc ccttgccaag 180

agtggttgaa ccccttttag ttaagcaggt acccttctccc ccttgagtgg cttcaccact 240
 tcccatgtga agtcagggtc atctctgcc aagtgtccat atgcagcagt cttcaagaac 300
 ctgccatttc caccctctt gagatcaagg ttgatggaga tcatgccagg cctgaagtca 360
 aaactctcct tcacaatgct gaggatttcc ttgtcagggg tcttcccagt gccataagtg 420
 tcaacaaaca cac 433

<210> 8379
 <211> 489
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092g07d1

<400> 8379

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 aacaagaagc actaaagatc taaaagatgt ataatgtatg tataagttgt gaggagacg 120
 aactaagata ttgggtacaa atgcaaaaag atcagcttat gaaccagaaa ttatgggagc 180
 gtggatctaa agagaagcac ttgcgtcaca agagtaatgc ggggggatgc ctaaaagata 240
 tctgacacaa gtaaaaataa aatgtactta aatgacctt atcgcatacg aagagaatga 300
 agcaaggtag tatgatataa tcggaatacc ggctagcccc cttagtggg cacggggcta 360
 ttgcggatat gcgacgtggc aactagaagg agcaggcggc taagggcact atagttaagt 420
 gctatgatct taggctgggc tgttgggggt aagcacacta acgcgacaaa tggcaccgcc 480
 aactaagcg 489

<210> 8380
 <211> 182
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092g08d1

<400> 8380

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 gggggggggg ggggggaagg aaaaggaaaa gggcaatagg ggtagaag agaggggcac 120
 gatacacagc atactgcaac acaagaatgg aaaacaaaaa aagcatatat ggaacccac 180

aa

182

<210> 8381
<211> 141
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092g09d1

<400> 8381

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gggggggggg gggggggggg gggggggggg ggggggggag actgaaggac tgaaagagtt 120
aggcaatatg cctagtaagt t 141

<210> 8382
<211> 536
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092g10a1

<400> 8382

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ggttcgctt cctcctggcc actcccttcc ctcttctccg ccgccggcac caccaccacc 120
accgcaacct cttcctctc tccaccatt ccctccctt atcttcttc tctttctctc 180
tcaaactcaa agcctcccaa tcccaagctt ccgccctaa cacctctccc tgcctgagt 240
ggtctcatt cctctccac atctctccg ccggtacct cccctcctc cccgaccaag 300
ccttcaccgc cgccgccgaa cgtctctct actcttctt ccgcgacgc accgcctgcc 360
tcgccttcgc acgtgaccgt cctaaccttc tcagggtgct ttctacgaga gacattgcgg 420
cgctggttga gcacggctcc ccctttctct tccgcgacgc cgacgactcc gtcaggaaga 480
tgaagacctt tctctccaac ggtgacacca atgtgttga cactgataga gcaaat 536

<210> 8383
<211> 498
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092g10d1

<400> 8383

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 aaggccagtg cactgtatac ggccaacagg ttggtgcat gctgcacatc gtaagtgttg 180
 ggtaagccg cgggggttg gctggataat aaagtgcggt attttgggct ctagacctag 240
 gaggaacca aaagtggctg tgccaagtgc atgcaactgta caaagagttg gaagtgcgct 300
 catctcatcc aattagtgtg tacttgggct tggtgtgcat agcgtaaacc cagtgcccgct 360
 tggatgctt cattttggta aatgtgggtt gcgttatgtg ctgtgattat gtgccgggtg 420
 acagctgcca ttgccccagc aatgggtgag taaagggtcca atatcagtgg cgagcaaagt 480
 tgcttggcaa ggggttatg 498

<210> 8384

<211> 481

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220092g11a1

<400> 8384

cgcaagcaaa aagaaagaat cccaggcgag gagaaagatg gaggggaagg agcaggatgt 60
 gtcgttggga gcaacaagt tccccgagag acagccgatt gggacggcgg cgcagagcca 120
 agacgacggc aaggactacc aggagccggc gccggcgccg ctgggtgacc cgacggagtt 180
 tacgtcatgg tcgttttaca gagcaggat agcagagttt gtggccactt ttctgtttct 240
 ctacatcacc gtcttaaccg ttatgggagt cgccggggct aagtctaagt gtagtaccgt 300
 tgggattcaa ggaatcgctt gggccttcgg tggcatgatc ttgcacctcg tttactgcac 360
 cgctggcatc tcagggggac acataaacc gccggtgaca tttgggctgt ttttggcgag 420
 gaagtgtcgt ttgcccagg cgattttcta catcgtgatg caatgcttgg gtgctatttg 480
 t 481

<210> 8385

<211> 541

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092g12a1

<400> 8385

tctgtctctg tgtttgcggc tgaggattcc gaacgagcga ccttcttcgt ttctcgcaaa 60
gtttaagtca tcatgggtaa ggaaaagact cacatcaaca ttgtcgatcat tggacatgtc 120
gactctggga agtcaactac cactggatcat ttgatctaca agcttggagg tattgacaag 180
cgtgtgattg agaggttcga gaaggaggct gctgagatga acaagaggtc attcaagtat 240
gcctgggtgc ttgacaagct caaggctgag cgcgaaagag gaattacat tgatattgct 300
ttgtggaagt ttgaaaccac caagtactac tgcacagtca tcgatgcccc cggacatcgt 360
gactttatca agaacatgat tactggtacc tcccaggctg attgtgctgt ccttatcatt 420
gactccacca ctggtggttt tgaagctggg atttctaagg atggacagac tcgtgagcat 480
gctcttcttg ctttcacccc tgggtgtgaag cagatgatct gctgctgtaa caagatggat 540
g 541

<210> 8386

<211> 481

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092g12d1

<400> 8386

taaccttgcc ggccaatttg ccgtgctaca tgtgtggagt gcctcctgct tggggggggg 60
ggggggaaat tagaaatacg ggagaaaatg gtcggagaaa ggaaagataa tggaaaatag 120
tttgacttac taaaccaaag ccatgaaaat ttgagactgc tggcgcaaag gtcaaagagt 180
gtacatgtgg gattagtaaa ataaaaata cgatgtagta aaaataaata ctaagcaaaa 240
ggcattattc tttagtaaca attgacgggg caaacggatc ctgatagcaa agtcctacaa 300
atggaaaaag agaatggaaa taaaatattg aacatgtgct aaccagaaaa tgatgagaaa 360
ccacgaatta tcagcagcag tatagcgtg actaaaaggc tttaaagcta agtatgggtg 420
tggcctactc cttggccgca ttggcctgtt ccgccccgtg ggtgggtgtaa tatgtggcag 480
c 481

0053113-032200

<210> 8387
<211> 558
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220092h01d1

<400> 8387

aagatgataa cccatgattt ccttagaaca tgcataatat tttacgcaaa gtttcttgga 60
taaggactag ttttgaagta acattgtgat gtgcatatca agctcctgtc ttcttttttc 120
tgccctttgt gttccatatt cnttttcatt gaaactatta caagggtcaaa ttattgcaac 180
caaaataatt tcgatcgggt catcaagtgg agaaaaaaaa aaattactcc catggcacat 240
caccgacaag catccagtcg ccaccctgt cttcataggt cgggacatag tcggagctgt 300
tcagaagatc catcaacttg ctctcattca tgaaatcctt gaagccttgg gattcacaat 360
ttccaatggt gaaggagcta aacattttgc ccaaggcatc agagagctca gggtaactct 420
tgtacatctt caagtcaact ttgcgaggt aagggtgtcc atccatgcta actttgacaa 480
agcttgcatt agggctgttc ttctcgcttt ctttccgtcg ctgctctttt gggctgcaaa 540
catgttcttt cggaaga 558

<210> 8388
<211> 454
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220092h02d1

<400> 8388

aaaaaataaa ctacctcttc aactttaaaa attaaaagcc atttctggta gcaacatttt 60
ttgaccattt acatgaacac gcttttattt gctacttaca acctacacaa tcaatcacac 120
aatggatgtc aacccatgat gatgacaaaa tttgacactt atgccatcct ttgaacaag 180
aacattcttt aaaggcttat gagggggggg ggaggatacc actgatgagc atataaggtc 240
aaactcttaa gggttatatg aacctcctct taaaattacg aatagttgct cggtatgagc 300
gtactaacia gctaaccctt ataccaacta ctacaaagat gccaagccca attccatcac 360
caactgtaac ccagcatta aaccatgatt gttcaccatc ttcccatctt acatatactg 420

gccttggcca atacatgctg atgtaatcct tttc

454

<210> 8389
<211> 447
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092h03d1

<400> 8389

acgcagaaga caagaataaa ttgatgtaat tcttagagtt cagcagcata atataacaaa 60
accaccaaaa gagaattgct tacagagaaa atgatcaaat aagacaaact ttcgagtata 120
aaaaacataa cgaaaatcag tatcactcat ttcatgaaag atgccatctg gaaggcattc 180
cctaatacca tcaaagtgct ccagctcaaa taaactaacg ctatcatcat cagtattgtc 240
caaactgcaa ttgatgatga ttaccaacta gcttcttttag gagagggatg agaccaatca 300
aagcaatctg aagctggtct gaactattta atggaatact tatttgtccg ggccctcgac 360
tgctcaaatt ggccagggca acaagggttg gattacgtcc tactgggatc tgagaatgca 420
cattgtaccc cacagcaaga tctccat 447

<210> 8390
<211> 542
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220092h04d1

<400> 8390

aagacttctt tctcataatc tgttttttagt gcagaaaatt aaaatacgtt ttagatgttt 60
ttgttttctt taacgtttta ataaattttc tatttttact tcaaactacc acgaccacgg 120
ccactgccac catcaccacc cctgctgcta gagtgccttc aagctttcac aacttattct 180
caaaacaaaa ttcataaagc agatccagat atttctgaat gactagagac catacatgcc 240
atgcaattat ctttcctcaa acaacttatt tcttactatg agcttcagta gttaagttaa 300
cattaacaac atactaagaa cggctttcat aacttcaaac taaaaagggtg tagttgggca 360
aggtaactaa caataaccat aagtatggaa tatcagaatc aaataatgca acacgccttt 420
acctgtcaa gatgatatat tataggcaaa gagtggcacc tgcaatacac gacaccaaaa 480

ctccaccaaa ctttgatgat ataataaggt caacttanca cggaaaagat gaaattcaaa 540
ta 542

<210> 8391
<211> 355
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092h05d1

<400> 8391

ccagggcatt gatcctttga ttttaattct caagtatgct gggaacatct tcatattgac 60
tcgtttatta tcgacattta aaaaaaatca tttgtcatga aaaatggaaa tcaccacaaa 120
aatgtcatac ccatcataga cataaatccc aacaaaactc cgcatgaatt gagtccgcaa 180
aattcttgac aaaaacaggg ctctcttatg aatagagacc gctaattggga ttacattagt 240
ttatgggcaa attctacaac atgcagggcc accaggcacg cacagacatg gctctccaat 300
attcaccatt aaggcctaag gggctgcaaa aactcaccat ggactccaga taacc 355

<210> 8392
<211> 558
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220092h06d1

<400> 8392

caaactcaac acgttttcaa ggtaattcaa ttctcagaaa caaagtaaca aaatacaaat 60
tacaatggat aacaagtccc ttaaataaga gataccttgt atcttttcac tagcagataa 120
aaaacaacca agttcaagat ggtttaagaa gaataaccaa tatggcaagg gtgcctcccc 180
tattctggag gattatatat caggaaccaa ggctcagaac cgttcaccaa gaacagtact 240
agatggtcta gagggacaat cgaacagcac tgaagatgat accttttagca ctagggtctc 300
aagcaccaca aatacccat catcggattc taagaggcga tccaagataa gaaaaccaca 360
gttcccatc aggttcatag tctcattcct tgcttcacca tttagaagca aaaactttag 420
catatccaaa aatgaaaagc gtcagccttt gttgaagtgc ttcagctatg aacagatttc 480
caatgctacc aaagacttcc accaagggtat gttagttttt ttggacaaaa cttagataca 540

0953113-032200

ttttctgaag tatcttta

558

<210> 8393

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092h07d1

<400> 8393

tgccttgcca ataccgtcta catgtgtagg agtaccgcct gcttgggggg gggggggggg 60
ggccaaatct aaaacttttag taggcgacgg caataggact aaacaaagat gcgttttagaa 120
tgaaagagta aaaaaacaaa aatagattac gatacagaaa ttgctgatcc ctttaaacct 180
tgtgtaaagc ataggagagg cgaatgctga ccaaggcgcg ttatagagcc attatacatt 240
acattacaat aaataggaac ttatccaaca tatgaagaga taatccatca ctaaagcaac 300
aacgttaggt caagcaaacc cccaaacaga agttagttaa tgacccccgc cccaagtgac 360
acggggtggt gctatgtcac aaagggggta tggctagtaa tttaacagca cgtaccatct 420
actaccttac catagaccgg taaaaacgca gagtagcaaa ggttttaggc gcgcaataat 480
ggacggctta aagtccttgt ggtgttagcc cactt 515

<210> 8394

<211> 554

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220092h08d1

<400> 8394

taggttgaca ggccagcaga gtgctacatg tgtagcagta ccacctgctt gggggggggg 60
ggggggggaa cgttatagaa aggtaggaaa cataggccaa atattaaaat ccgagtacta 120
atgcacctga gttaaactta cacagttaaa aggataaacc taaaagcaga aaagatccaa 180
gtaacaacta agaaaagggtg attagtacag caagtaaaag gtaaaagtac gtgatttcgg 240
cagtaatgtt gctagagcgc ccaaatacag gctaagaaaa ggtgatgatt agtacagcaa 300
gaaaaagtta aaagtacgtg atgccggcag tactggtgct cgagctacgg gtaaacgctc 360
tggctgtgct ggtggcgatt gttggtgtac ggggttgctt tggtgggcag ggcgacgaga 420

tatgtagaaa ccgtttaata ctgttagatg gttgttgacg agctgtagat aaattactag 480
 taaatagcct gtacaacggg ggtgtacata ctgtacatat actagatgcg cctggcaaatt 540
 tagcaggggt aagt 554

<210> 8395
 <211> 204
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220092h09d1
 <400> 8395

agacggggcg gtttggcgtg ctacatgtgt ggagctggtg cctgcttggg gggggggggg 60
 ggggggaact gataaaacat cgccagaatg gcagaggagg ggaggataga tagctagaca 120
 gacttgctgt gtaaagaacg tcctaccaat aaacagacac acaggtaatc agtggtaaag 180
 gggatagggc gctaaaaggg gggg 204

<210> 8396
 <211> 547
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220092h10a1
 <400> 8396

gttgatgatg tcattgagca ttactcaaaa atcaaagaaa atccagagtt ccattctctt 60
 cccagcttcc tatttgagca gtccatgggt ggagctgttg cattaaagat acacctgaaa 120
 cagcctaagg catgggatgg tgccattctt gttgcgccta tgtgtaaaat tgcagatgac 180
 atggttcac caaaattcct cactcatatc ctgattggtt tagccaatgt tttaccgaag 240
 cataagttag ttccaaacaa ggatttagca gaagcagcat tcagagattt gaagaagagg 300
 gaacagactg cttacaatgt tgttgcttac aaggataaac cacgtttgaa gagtgtgtga 360
 gaaatgctta aaactaccga agaaatagaa cagcgattga aagaagtttc tctaccaata 420
 ttcatccttc acgnggaagc tgacactgtg actgatccat cagtgaagcaa agccttgtat 480
 gagaatgcaa gctgttcaga caagatgctt cagctttaca aggatgccta tcatgcactt 540

cttgagg

547

<210> 8397
<211> 594
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220092h10d1

<400> 8397

tgacagggat ttgccgctct acatgtgtag cagtaccgcc tgcttggggg gggggggggg 60
cgcggtttat gagaggggtg ggggtgggagg aacgaaacag agaaatagga gagcggaggg 120
atagactgga gtcaaaaaaa aaagaccggt gggatagaaa aataaccgga gcgtgacgaa 180
tgcattggaac ggctaaataa tacataacgg taaaagggca gatgtgacgg atggggagcc 240
aaataagact aatgggtgag ggggttaggct gcaaaataac tgcaagcaag aggtagtggg 300
gcaagttaca cactaaaaag aaggaagtcc gaggaacacc aacaggcagg cgcgcgtaac 360
tgcgctgtag tgacttaaca gagcagcgta ttaaaatgg cacggaggag ggtagtacct 420
gtatttgtaa caacgctagc agacctagtt ggcgaaactg caactgggtg cgtgcaatac 480
tggctaggtg tagataacct agggctgtat gcagccagta cgtatacgcg tactggtttt 540
cgcaaccagc aagaggccga cacaaatggt gggttaagtct gccgtgaggg tggt 594

<210> 8398
<211> 545
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220092h11a1

<400> 8398

cagcactgac ttctgctctc cttttgccat ttctgttcag gcgcagggat gtataataaa 60
cctaatacctt gcttttgggt gggcttgtgc tgcatttgtc aggaaccgag aaataaatag 120
aataaagaag agtatcgga atggcaataa ctttgcattc ctttgtcatg atattagtga 180
acttgagcac tccaatcagg ctgatcttcc aagtgtaca gtaattatgc ccctaaaagg 240
atttgagaaa cacaatctcc ataactggaa gactcagtta acatcgcttt atggtggccc 300
tcaagaatat cttttagtag ttgaaagtac agaggatcct gcataccatg ctgtagcaaa 360

actaataaca gaattagagg attctgttaa agctaggatt ataatagctg gtttatcaac 420
 aacttgtagt caaaaaattc acaatcaatt ggttggagtg gaggcaatgc ataaagatag 480
 caagtatgta ttatttttag atgatgatgt taggctacat cctggatcaa tnggagcact 540
 cgttc 545

<210> 8399
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220092h12a1

<400> 8399
 atttttcact tttgggtgag cagaatcggt atgcttctgg aacagatata gtgaggtttc 60
 caaggggtgg ctatgtacat agctttcctt tcttagatag ttcagaaagt ggagccacac 120
 agaatgtgct gcaagcttct ggctcaacca aggcagattc tccaattctt ggtctcacag 180
 tgatgggtga aggtcgcata gctgtgtatg gggactccaa ttgtttggac agcagtcata 240
 tggttacgaa ttgttttgcc cttctgagga aattgctaga ttttactaat gaagacgtta 300
 gagatccaga acttttctct gactcaaata aacaagattc tcctttgtat gaacctgaca 360
 atcagttgcc atcccgcaga actgatgtaa atttctctgc attttcagct attgtgggga 420
 aggaattgat ctgcaggact gacancaggt ttgaaatctg gggaactaag ggctacaatt 480
 tgcaagtcac gggaagaaac caga 504

<210> 8400
 <211> 173
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220092h12d1

<400> 8400
 aggcttgccc gggagatttg ccgtgctgcg tgtgtggagt ccacctgctt gggggggggg 60
 gggggggggg gggggggact aggaataggc cctataggag ggtatgggta caaaagggcc 120
 cttggggaaa acttggttca attcttaaaa gccggttatt gggcccaagg agg 173

<210> 8401
 <211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093a02a1

<400> 8401

gtcacggggg agatctgatt cgggaggggtg gttgaggggc tgtctggtgg ttttcgcagt 60
 ggtctcagcg ttgggcgtgt gtggccctgc tctttactgg cgattcaaga acgccatcac 120
 tctccgcaac aacaacaaca aactctcttg cccttcctgc ctctgtgact gccctcccc 180
 tctctcgctc ttccaacttg ctcttgggct ggcgaatctc tctgtctcag attgtggaag 240
 taatgacccg gatctaaagg aggagatgga gaagcagttt gtggaccttc tcagcgagga 300
 gttgaagttg caagagtctg ttactgaagc aaacactcgg cacatgaaca taactntggc 360
 tgaagcaaaa gagtggcgctc tcagtaccag agagaggcag attaatgcat aactgcaact 420
 ganacatgcg agcaggcaaa agaacgtgct caggccatac tcacaaggga gaaaagatga 480
 ctc 483

<210> 8402
 <211> 424
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093a02d1

<400> 8402

agacctggcc ggccaacttg ccgtgctaca cgtgtagcac tgccgccgctc tttggggggg 60
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggccc cggcaaacta 120
 cactgaaagg gatgccagaa agggaagtaa ccttagaaat agcaccggga accctttacc 180
 aaatgcactt cccccagtac atgaagcccc tatctcgagg taggcccagt ggagcaccca 240
 aaaagagggc agatgactgg agaaccaga tacggataca tataccaacc cgggaaatgg 300
 gaattgaaag ggcccaatgt aactagggga tggccagctg gccagaaaat tatcagtagc 360
 agggggctta gaaacaaggg gaaggataaa attgagctac cggggtgttg ggtaattaa 420
 gggc 424

<210> 8403
 <211> 581
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093a03a1

<400> 8403

ctcgagccga ttcggctcga gcttatgttt atgacatgag aaacaagctt aatgacaaat 60
 accaagagtt tgtcactgct tcagagagag atgattttac tgctaaactt caggaagtgg 120
 aagattggct ttatggtgag ggtggagatg aaactaaagg tgtatatact gccaaagcttg 180
 aggaactcaa aaagcatggt gatccaattg atgagcgtta caaagaattc atggagaggg 240
 gtactataat cgaacagttt gtctattgta taaatagtta cagacaagtt gcaatgtcga 300
 atgatcccag atttgagcac attgacatta acgagaaaca gaaggtcata aatgaatgtg 360
 ttgaagctga aaagtggttt aatgagaagc agcagcagca gaactcactt ccaaaatatg 420
 ccaaccctgt actcttgta gctgaaataa gaaagaaagc tgaagctgtc gataggttct 480
 gcaagccgat tatggcaaca ccaaggccaa ccaaggcgac tacttcacca ggaccagcaa 540
 cacatccatc ttctcagagt gatgaacagc agcagcagca g 581

<210> 8404
 <211> 445
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093a03d1

<400> 8404

cagacttggc cggccaattt gccgtgctac actggttcag tgccgccttc ttgggggggg 60
 gggggggggg gggggggggg gggggggggg ggggggggga aatcccaaact cactaggata 120
 aggtagttag tcctgaataa gtggagagaa tgaagtgaga gggaaattga cacaaacgaa 180
 tgtggtgcct taaggttaat tataggcctc ggggggtggt aaaaggtggg cccaaaaaaa 240
 gttccaggtt aaacaattat tagaagagga aggaaaatgg atcggattaa ttaattaatt 300
 cacacccggt gatggatatt aagtagttaa ccccttatat gtatgggtaa tttattaaaa 360
 ggtggggggt tgccctttaa ggtagatgta aagctggaga tacagaccac acatggcaca 420

cctgatttat aattaaaaag gacct

445

<210> 8405
<211> 587
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220093a04a1

<400> 8405

cattcccaaa gaagaacgtg gcctctctgc taaaccctt atcgtctcca aaaatggctt 60
cttctatcat aggcgtttcc tccatttacc aaacaccccc tctcgaacta taccagaggc 120
caagcactgc ttccacttcc tccgtaggt tgcaatcttt agactccaag tctcacttca 180
acaacctcct ccgagcccac cgccactcca ctggcccggg cctcaagcct acaccatctt 240
tcgtcccctc cgccgtcgcc accccaact cctccctcct cagcgaagaa gccttcaaag 300
gacttgcccg cgaattcgac caaaacgacg accaattcac ccgcgcctcc tccgccgccg 360
aatccgttaa ccccgacgaa ctgcacattt ccaagctcga cttgccctcg cgtctcgttg 420
agtctctccg gagccgtggg attactcaac ttttcccat tcagagagcg gtgtagtac 480
ctgcactaga aggtagagat atcattgcgc gagcgaagac cggtnaccgg aagacgtag 540
cgttcggaat ccaattataa aggcctcact gaagtgaaca cgcacct 587

<210> 8406
<211> 367
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220093a04d1

<400> 8406

agaccttgcc ggcagatttg ccgtgctaca cgtgtgcagt gccgcctgct tggggggggg 60
gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 120
gggggggggg ggggggtttt ttaaaaagac cggcttgggg tttgttccca aaaatggggg 180
gggggtaagg tttgggggta aaaaaaaagt tgaaagggtg gcccattttc ccaaaaaaaa 240
accccctttt ggcccaagtt ttttaatttt cgcccaccta aggaaaggaa aagccccaat 300

ttggggccaa aatttgggga aaagggcccc cattttgggc ccttaaaaaa cccctctga 360
 aaaagtg 367

<210> 8407
 <211> 580
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093a05a1

<400> 8407

gggaagacat gggaaaagct tgggtaggcc tgggtgtatt gctgtgtttg attgtcacgg 60
 ccacgccga acaatgcggt cgtcaagctg gcgggcagac atgtcccaac aacctatgct 120
 gcagccagta cggttggtgt ggaaacaccg aagaatactg ttccccttct aagaactgcc 180
 agagcaactg ctggggaggg ggcggcgggt gcggtggcgg cggcggcgggt gaaagtgctt 240
 ctaatgtccg cgccacatat cattactatg agccagagca acacgggtgg gacttgaacg 300
 ccgtgagtgc ttattgctca acttgggacg ctagcaaacc ttactcatgg cgagtaaat 360
 atggctggac cgctttctgt ggtcccgttg gtcctcgtgg ccgtgattct tgtggaaagt 420
 gcttgccgggt gacaaataca ggaacaggag caaacacaat tgtgagaatc gtagatcagt 480
 gcagcaacgg aaggttggat ttggacgtgg gagtgttcaa tcggatagac acagatggaa 540
 gaggatatca acaggggcat ctcatggtaa ctatcagttt 580

<210> 8408
 <211> 495
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093a06a1

<400> 8408

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 gcacaaatca atccgagtta gaaacaagta agaaggattc cacttatgac agaatagctg 180
 aagtcaaagc ctttgatgaa acaaaacttg gtgtgaaagg cctcttcgat tctgggatca 240
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atgactcaaa cttcagtgtc cccatcatag atctccaaga tatagacaca aactcatccc 360
 ttcgtgtgaa agcacttgac aagattcgaa gtgcatgcaa ggagtggggg tttttccagg 420
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 ttcattgaaca agatg 495

<210> 8409
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220093a07a1
 <400> 8409

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 ttccggtgct cccatctgga acaacaactc atcgctgact gttggatcta gaggtccaat 180
 tctgctggaa gattaccatc tggatggagaa gcttgcaaac tttgacaggg aacggatccc 240
 cgaacgtgtt gtccatgctc gtggagctag cgcaaagggt ttttttgaag tcacgcatga 300
 catttctcac ctcacatgtg ccgatttctt ccgagcccct ggagtacaga cccctctcat 360
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<210> 8410
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220093a08a1
 <400> 8410

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 tggcattggc tttggagcct ctttggttcgg attggttgct gccattgctg ctatttatct 180
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 cattttcttc agcttgccct catttaatttt cgacgtattc aggggagagc ttggaaaatg 300
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383

<210> 8411
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220093a10a1

<400> 8411

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tgcttgctgg gagctctact gcctcgagca cggcatcggg cccgatgggc aaatgccaaag 180
tgacaagaca gttggcggtg gtgatgatgc tttcaatact ttcttcagcg agactgggtgc 240
tggaagcac gtgccacgtg cagtgtttgt agatcttgag cccactgtta ttgatgaggt 300
gagaaccgga acttacgcc agcttttcca cccagagcag ctcatcagcg gcaaagaaga 360
tgccgccaac aactntgccc gtggccatta taccattggg aaagagattg ttgatctgtg 420
cttgaccgc atcagaaagc 440

<210> 8412
<211> 535
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220093a11a1

<400> 8412

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gaggggaaag aaatttggtg tcgagatgaa tataggagcc aatgtgaagg atctagggca 180
ggaattgcaa aagttaacaa atatcaaaga agataccatg cggttcattg ttccacagat 240
ttctgccaga acgtcaaaac ttctggcccc cttttccaag gaacatgcac ttttaagtct 300
gcaggaaact tcaattaccg aggccaggtc aattataatg atgggtgtac caacaaatga 360
ggttgaagag gttttacaaa atgcaaaaac agatttaaga atagctggat ttgaggacga 420

ggagaagaga cagaaacaga gaatttccca tggacctcat atttcattga aacttncaca 480
 agggcagtat atantttgtg atttcgtaca cttcacatcc aggaaataga gctga 535

<210> 8413
 <211> 516
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093a12a1

<400> 8413

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 gcgatcgagc accggcgaaa agcggcgaag atgaaggttt tcgtgaagac tctcaagggc 180
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 gaaactgttc aggggtgcaga tgtctatcct gctgcacagc aaatgcttat tcatcaagga 300
 aaagttctaa aggatggtac tactttggag gaaaataaag tagctgaaaa tagttttatt 360
 gtaattatgt tatcaaagac taagagttca tctggtgaaa gatctactac ttcaactgct 420
 ccttcagtta aggcaagtgc aactcctact tcaacctctg tgtctgctgc gcctcaagct 480
 cctgcttcaa ctggagcaac gcttacacct gttact 516

<210> 8414
 <211> 532
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093b01a1

<400> 8414

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 ggaaagagat ttggagccat tggagaatga ggttcagcct ggtgaagatt gtaccagtc 180
 attggtattg gttcagatgg ctggtgaaga tttcagcag aatagtccga aaaagaaaag 240
 gcgcaagttg gaaccagctg gggaagggga gtcttgcaag cgttgtaatt gtaagaaatc 300
 aaaatgtttg aagctttatt gtgagtgtt tgctgctgga gtctactgca tagaaccttg 360

095113-032200

tgcatgccgc gattgcttca ataaacctat tcatgttgag actgtttctc aaactcgcca 420
gcagattgag tctcgtaatc cacttgcatc tgctcctaaa gtcatacgaa gttctgattc 480
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<210> 8415
<211> 199
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220093b01d1

<400> 8415

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aactggggag ggcttgaagg cccttcaggg tatgcctaata cccctttagg ggaagggttt 180
accctttatt ttaggggtg 199

<210> 8416
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220093b02a1

<400> 8416

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cggcaaggac taccaggagc cggcgccggc gccgctgggt gaccgacgg agtttacgtc 180
atggtcggtt tacagagcag ggatagcaga gtttgtggcc acttttctgt ttctctacat 240
caccgtctta accgttatgg gagtcgccg ggctaagtct aagtgtagta ccgttgggat 300
tcaaggaatc gcttgggcct tcggtggcat gatcttcgcc ctggtttact gcaccgctgg 360
catctcaggg ggacacataa acccgccggg gacatttgng ctgtttttgg caggaagttg 420
tcgttgccca gggcgatttt ctcatcgtga tgcaatgctt ggggtgctatt tgt 473

<210> 8417
<211> 164

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220093b02d1

<400> 8417

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gggggggggg aaacacagct agagagagca tgtgccccg agggggcagg ggccaaaggg 120
aagggtataa ggatacctcg gtaggatata gcaaggccct tggg 164

<210> 8418
<211> 595
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220093b03a1

<400> 8418

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cccaaaatgt ggacagagaa ctggactggc tggtagactg agtttggagg cgcggtcctt 180
cgtagacctg cagaagacat ggcattctca gttgcaagat tcgtacagaa tgggtggttca 240
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ttcattgcca ccagctatga ctatgacggc cctattgatg aatacggact tctaaatgaa 360
ccaaaatggg ggcattcttag agatttgcat aaagcaataa agctatgtga gccagcttta 420
gtgtctgtag atccaacagt gacatggcca ggaaataacc ttgagggtaca tgtgttcaag 480
acttctgggtg cttgtgctgc attccttgca aactatgaca ccaaactctc cgcatacgtt 540
aaattggaaa tggacaatat gacctaccac catgggtctat cagcatcctt cctga 595

<210> 8419
<211> 411
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220093b03d1

<400> 8419

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gggggggggc ttatggcaaa gtaatgagtg aggatgggta agggcggtgg atagaaatag 120
 ggtaagacaa aaagaaaaag gaggggtgcc gacaagaagc agcgacggag tgcattattg 180
 gtgtcgcgtt aatgaggtgg ggagacaaat aaaagcgcga gcacccctgc tgtaagctgg 240
 taggagga aa actttttgac gggagccatg agccactaag aagtactaca agaagtgc 300
 gagcgataat atggctactt aagggtgggg agggataggt cggggtctct agttgccgct 360
 agcgggctag gtgcgagcgc gccaaaggtaa tgatataaac gaaaccccg g 411

<210> 8420
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220093b04a1
 <400> 8420

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 gttattgaca cctgctctgg atactactgc gaaaactata ctcacaacat gaaatacaaa 120
 tcaaaaatgt ggacatacaa ctggactggc tggtagactt aaccaggagg cgcgaccat 180
 cgtagaccag cacatgacat gacattttca gatgaaagat tcgtacataa tggaggccca 240
 tctgctaatt actatatgta ccatgtagga actagcttag accggacttc cagaggactc 300
 atcattgtct cagctatgac tatgactgac ctatagacga atactgacgt ttaaatgaac 360
 cacaatgggg gcatcataga gattcgcata ctgaaattaa gttctgtgag ccagctttag 420
 tgtctgtaga ttcaacagtg acatgggtccg ataataa 457

<210> 8421
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220093b04d1
 <400> 8421

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 gggggggggg ggcttgtggc gaaagtgatg agtgaggatg ggtaaggtct gtggatagaa 120
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ttgggagccg cgtaaatgag gtggtgagac aaataaaagc acgagcaacc ctgctgtaag 240
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 gcatgagcga taatatggct atttaagggg ggggaggtat aggttggggg gcctaggtgc 360
 cgctagcgag ctaggtgcga ggcgaccaat gtaatggtat aaaggaacc ccctcgtcag 420
 aagggggtga ga 432

<210> 8422
 <211> 467
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093b05a1

<400> 8422

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 tccgtctcag ttcctttctta ttccaacctc actcggtttg agagcacgga atcaatgaag 180
 aaaataatta gaatattttt tcagcgttag taaaaccgtc acattaaaat aataaaaaag 240
 gagcgtaaat taggaagaaa tatttttgtga ggaagagaaa aatgcgagtg aaagagatgc 300
 acccgctgtg ctgtatctcc ctcgagagtc ccggaatcgg caaatattcg tcggagcggg 360
 agccggcggc gcttttccga accaggagcc ttctggcggc tggatctcac ggcaatgccg 420
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<210> 8423
 <211> 509
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093b06a1

<400> 8423

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 ttccctaata ttgacaagtg tgatttggag tgtagagggt cacaaaccct agcttgtgac 180
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 aaggacatgg aaaacacttc aagggcagtt ttgccgaagt tctacttga gaacctcaac 420
 cttgaggcct atgaggtagt ggcttcagta gggccagag ttttcttcac cactatgcct 480
 aaagtgatgg ttgaaggggt tctcaagga 509

<210> 8424
 <211> 237
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093b07a1

<400> 8424

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 cgatgagatc tattaataca gggacgggta ttgaattggc gaaggtgatt tccgaatcga 120
 tgaagctggt gcagaagcag aaccactcct caagatactg acgcgtgaag atgaagaaca 180
 ggaggctggc ttagtgcttg actcaagccc tgtaattcat gaactcatgg tgagtga 237

<210> 8425
 <211> 523
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093b08a1

<400> 8425

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 cacttgcttc tgcttccttc gccgccaacc caagagcacc aattgatgtg ccatttggca 120
 gaaactatgt gcctacctgg gcctttgatc acatcaaata cctcaatggg ggttctgaga 180
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 ttggtcactt cagcatgtac ataaaattgg ttgctggtga ttcagctggc acagtcactg 300
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 acagaaccgg gcaaccttat attttgcaaa caaatgtgtt caccggtggc aaggggtgaca 420

0953113-03200

gagaacaaag aatctacctc tggttngacc ctacaagaga atatcacaga tactcagtgc 480
 tatggaacat gtaccagatt gttttctatg tggatgacta ccc 523

<210> 8426
 <211> 258
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093b09a1

<400> 8426

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 cgcgaactac atcacagggg acgactgagg ctctgttcgag ataccaccta gaggactcaa 180
 cattgtgtgg ggaaatgagt ctctgttactg gcaaattcca gaacagggtc ctgctggagct 240
 gatccaagct tgatgggtt 258

<210> 8427
 <211> 514
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093b10a1

<400> 8427

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 gcatggcggc ggaaccggtg agtgacggcg gagcgcggc ggagaaattg atcagcggga 180
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 ccaaactcgt cttgggtttc gggtttctct ttgggtttat ggtgcttctt atcaacgaga 360
 agagcagatt tggccgaaga ttgtcgaggt tcatatgcaa gcacgcttgc aattactttc 420
 cgatcacgct tcacgtagag gatatgaaag cctttgatcc taaccgtgct tatgggtttg 480
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<210> 8428

<211> 539
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220093b11a1

<400> 8428

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 gcaatcttat tggcagaaga tgctaggtgg agttcatcaa tttctggta ggtataatat 180
 ctcatgaat ctaatataac gttattcata gtgaaaataa atcgagccaa ggaatttatt 240
 aataattgtc ttcatttcatt attagctgcc tgctgcgact tccttatgca taattttact 300
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 gcgngggctc tgtataattg tacaattatc tacttgtaag aagttcagat tcgggcgaca 480
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<210> 8429
 <211> 524
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220093b12a1

<400> 8429

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 aatacgagat gttggtagat ctgttgcca gaaagccaag ttgattgggg ttattcttga 180
 cttcggcttt ccaagaaat ccaagggcac tgatttttgt tggtgcctaa gaataattga 240
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 taaaggggaa gtaaatgtta ctttcaacaa gagattttcc tctcttggt tatataaagg 420
 caaagatggt gatgatttgg atccttatta cgtntcttct tattttcacc acgtacgtga 480

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524

<210> 8430
<211> 597
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220093c01a1

<400> 8430

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ggagccttct tttgtgtgga acagagcaga tttcacctcc ctgggttttt tgaaccgtgc 180
ccatgtctaa agttttcagc tttaccggaa atgatgattt ctaccatggg ggccctattt 240
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ttcctcttca gaagaggtct cgcttcagtg ttccatttga tatcagcgga gaatggtttg 360
agcagaagca gaagccaaag acatctattg aatctttgcc agatgaatgc ctctttgaga 420
tccttagaag gctgcctgca ggccaagata ggagtgtctg tgcttctgta tccaagcgct 480
ggcttatgct tctgagcagt atttgcaaga ctgaaatcca cagctaccga agtactggaa 540
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<210> 8431
<211> 188
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220093c01d1

<400> 8431

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gggggggagg gaggaggggg gtagaaaaga aatagaatac gataaaccct agagtgtacg 120
agtaggatag cagagacaac cggataagca taacggtaaa aaaaaaaaaa agcaactgga 180
aaaacctg 188

<210> 8432
<211> 552
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220093c02a1

<400> 8432

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ttctcacacc tacttgcttc ccaagatcgt gactatcttc tctctccaac tggggctcag   180
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ccaccttgcc gtggattcac ccaagtccta gctggaatct acgaggagct aaaaagcaga   300
gtccctcaat ttgagattgt gtatgtgtcc tcagatgagg acttgaatgc ctttaatagc   360
ttctatggaa gcatgccctg gattgcaatt ccgttctctg atttggaac aaagaagtct   420
ttgaccagaa agtttgacgt ggaagccgtt ccatgcttaa ttttgttgca acctgacgat   480
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<210> 8433

<211> 215

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220093c02d1

<400> 8433

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atggcagaga atcaataacg aatactatga ggggggagaa aaaaaaactg agccacaagt   180
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<210> 8434

<211> 138

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220093c03a1

<400> 8434

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 gtttagaagt tggcgacc 138

<210> 8435
 <211> 578
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093c04a1

<400> 8435

atcaaaaacc ctaaccaaga aagttttcac cgcattctcca cctattctca atctccacaa 60
 atcgaagaaa agagaatgag tagacgctcg agcagaactg tctacgttgg gaatctacct 120
 ggtgatatcc gtgaaagaga agttgaagat ttgtttctga agtatggaca cataacacac 180
 attgacctaa aggttcccccc aagaccacct ggttatgcat ttgtagagtt tgaagatgct 240
 caagatgctg aggatgcaat tcgtggctcg gatggctatg attttgatgg gcaccgggta 300
 cgggtgggagc ctgcccattg tggacgtggc cattcatcct caagagatcg atacaatagt 360
 cacagcaatg gccgaggtgg accgtgggtg tctaggcgct ctgatatcgt gttctaactc 420
 ctggattgcc ctcttcggca tcctggcagg atcctaagga tcacatgcgn taggcagggg 480
 atgtttgttt ttctcaagtt ttcattgatg aggggtacta ccggtattgg ggatacacia 540
 atatgatgat atgaaaatgc tatcaagagc ttgatgac 578

<210> 8436
 <211> 435
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093c04d1

<400> 8436

aatgcctgcc aggagatttc gcctcgtgca tgtgagtagt gccagcttgc tttggggggg 60
 ggggggggaa acacgaaaat gaaggccgaa gtaaagaaat tcctataagg atttaaagac 120
 tctagcgggg gcataggtaa gacgtgagga taaaaagtga tcccttcgta aagttgtaag 180
 aggaaaagga acgtcaaacg tggaaccgta agaaaacccc agtaaattgg aaatttaaag 240

cggggggggc ctgaaaccga aggggatggc aaaaaatggc ccgctttggt tggaatagga 300
 ggtaaaatgg taggaaggcc gattagtaaa accggatccc ctaaaagggg ccggggccgg 360
 tggatgtgaa tgcccaagtt gctgactatg ctctgggggc ccctggggag gatctccacc 420
 taagcccat tgcca 435

<210> 8437
 <211> 547
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093c05a1

<400> 8437

gagaggaaga gggagtgaga gagagtgttc ttcgtttgct accttctccc agaaatggtt 60
 acgttcaggt ttcaccagta ccaggtgggc gggagggctc tcccaacgga agcagatcag 120
 catccgaaga tctaccgaat gaagctctgg gccaccaacg aggttcgctc caagtctaag 180
 ttctggtatt ttttgaggaa gctgaagaag gtgaagaaga gcaatgggtca agttcttgct 240
 atcaacgaga tttttgagaa gaacccaacc aagattaaga actacgggat atggttgctg 300
 tatcagagta ggactgggta ccacaacatg tacaaggagt accgcgatac cactctaaac 360
 ggttcagttg aggcaatgta caatgagatg gcttctcgcc acagggtcag gagcccatgc 420
 atccaaatta tcaagactgc aaccatccca gctaagcttt gcaagagggg gagcaccaag 480
 caattccaca actccaaaat caagttccca ttggtcttcc agaaagttag accacctacc 540
 angaagc 547

<210> 8438
 <211> 297
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093c06a1

<400> 8438

gtttactgac acttgacagag agtggtttttc ttactaggtt acagcggcgt gggccaagag 60
 ggtgaccatg gccatgggtca ccaacctgct ctagtctacg gggttcgcgg catcatcacg 120

acctagacat gttgaatact cttgaacgaa aaccgcccac gcacgccacc ctatgcatga 180
 cgaggaactg aagtccatgt acgagcagag gctagtaaag cacggcaggg cgtgcaccgc 240
 gctgcgagag aacgagaaca ggatccatta cttcagggac aacctgcat tcacga 297

<210> 8439
 <211> 223
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093c07a1

<400> 8439

acgaaaccgt gacattgaaa tccacttggt gtactatggt tatggttgct accataaggt 60
 gcttattgta tgattgattc atcatttacc atatactata ttctaccat tatttattat 120
 cattgtattg tttgagctgc gaaatcgat agtgagggtt gaagacagaa cagaggctct 180
 attatcaaag tatatgtgtt gcgtgagtaa ccctaactac gtg 223

<210> 8440
 <211> 566
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093c08a1

<400> 8440

agccattgaa ggggtgaaag cctcgtgttg ctgattttgt tcatggtaaa gatggactag 60
 ggaacacatt cctaccccca cctaaagggt agaaaattga gaaaagtgt agtgagtttt 120
 tggtagagaa agtctctgaa tctcctggtg aagtatctgt gctagcactt ggaccactaa 180
 caaatttggc tttggcaatc aaaagggatt cttcctttgc aagcaaagt aagagaatag 240
 ttatacttgg tgggtgcattc tttgccttgg ggaatgtgaa tcctgctgca gaagccaata 300
 tccatggaga cccggaagcc gcagatattg tgtttacctc tggggcagat attgttggtta 360
 ttggaataaa cattacaacc caagtccaat tcacagatgc tgatctcctc gaactgaagg 420
 aatctaaagg aaagtatgct cccttcttga gtgacatatg caaattctat agggactttc 480
 atgtaaaatc tgatggtgtc cacggaattt tccttcacga tcctgtaagt tttgtggcag 540
 ttgtgcgtac agatcttttc acatac 566

<210> 8441
 <211> 395
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220093c09a1

<400> 8441

gataaagcac agaacagttg aagtgaatgg cataaaaatg catgttgcag agaaaggaga 60
 ggggccagtg gtgttggtcc tccacggctt ccctgagctc tgggtactcat ggcgccatca 120
 gattctctct ctcagctccc tcggctaccg cgccgtcgtt cccgatctcc gtggctacgg 180
 tgacaccgaa gcaccacctt caatcagcag ctacaactgc ttccacatag tgggtgatct 240
 tcgtgcgtta atggactctt tgggtgtcca ccaggtgttc cttgtgctta atgactgggg 300
 agccatcata ggttggatc tatgcatgtt tcgccctgac aaagttaagg cctatgtctg 360
 cctcagtgtc cctctcctcc gcagagaccc aaaca 395

<210> 8442
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220093c10a1

<400> 8442

accaactcgg ttcttttttt tctttcacct tcacctatgg ccatggcttc tttgattcag 60
 tgttttgcaa cttccctctc cgctgtcccc atcactaccc gtttcaccag gaccacaag 120
 tctgccttc gctgtcctt agatgcta atgtttccgaca tgagcgtaa cgcgccaaaa 180
 gggttgtttc ctccggaacc tgaacattat cgaggaccaa aactgaaagt ggcaattatt 240
 ggagctggac ttgcaggcat gtcaactgca gtggaactct tggatcaagg ccatgagggtg 300
 gatattatg agtcaagacc ttttattggg ggcaaagttg gctcttttgc tgacanaggt 360
 gggaatcaca ttgaaatggg attgcatgtt ttctttgggt gctacaacaa tctttttoga 420
 ttgttgaaga ag 432

<210> 8443
 <211> 518

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093c11a1

<400> 8443

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gctgaaccct cacctcaatc ttgcgtgcta gctagcttta ttccaattcc tacagaacca 60
aattattctg ctagctagct agtacgtcaa ataaaataaa ataatcaaat atggcattca 120
gcgggaccca acagaaatgc aaggcttgcg acaaaactgt tcactttgtc gaaggtttat 180
ctgccgatgg agctgcttat cacaagaact gcttcagatg cagccattgc aatggccttc 240
ttgcgataag caattactca tccaccgaag gagttttgta ctgcaagggtg cactttgagc 300
agcttttcaa ggaaactgga acctacccca agaaatccca gtcgtctgga aagcctccac 360
tcgagctgaa tagagcacca agcaagcttt ctgccttctt ctctgggact caagagaaat 420
gttcaaaatg caagaaaacc gtatatccat tggagaagtt gaccgtggaa ggcgagtnt 480
accacatatc atgctntang tgtgcacatg gagggatg . 518
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<210> 8444
 <211> 496
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093c12a1

<400> 8444

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aatttgcatt gatatgtaaa tatgcaatgg actagcaaca ttactaaata cattcgtgta 60
cgatatccat atgttaaagc cgtaacctat ggactatcac acaacagttc tgctactgat 120
tacctttgtg agtgcaacca ttattctcat attcattcgg agattattca accaaacctc 180
agaatcagaa tatgcaaagc ttccaccagg gcctcgtcca tttcctatca taggaaacat 240
cttggaaactt ggcacaaatc cacacatagc actcacaaa ttctcaaaga tttatggacc 300
tcttatgact tttaaacttg gcagaataac caccatagtt atctcctctc ctcaagtagc 360
caaagaagta ctacttgaaa atgggtcaagt cttttctagc agaacaattc cacattcagt 420
ccatgcactt gaccatcaca tatactctac tgtgtggctg ccaccatcag ctcatggagg 480
aaccttangc gagttt 496
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<210> 8445
 <211> 566
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093d01a1

<400> 8445

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ttcggctcga gattttccct ttcgtcttga gagagagaat cgggtgtattg catctgaatt   60
ggaggggctt tggttcacag aaaataggaa accaaaccct aatataagtc ccaaatacaca  120
atcacagcat cagaagagag gtctctcgcc gattgttttg tatctgcagt tcaactcctta  180
cgaattccga gtatctccgt ttgctgtggc ctttcaacttt cttctctaata cagcgcgtag  240
aaccacaaca acgcttcgca ggaccaaaaag aactgttata gtgtgtacaa actgccggcg  300
aatatggaag aagatgatta tgtggagtat gtgcccgtgg ccaagcgtcg tgccttggaa  360
gctcagaaga ttctccaacg caaagggaag gcctctgctg tcaactgacga tgatttggag  420
aaacaaagag tggctgaaac taagcccagt cttctggtta aagcgtcgca gctgaaacga  480
gagcaacctg agatcagtgt gaccgagcag attgttcaac aggagaagga gatgattgan  540
aacttgtcag ataggaaaac cctatg                                         566

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<210> 8446
 <211> 331
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093d01d1

<400> 8446

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tgacgggaat ttggtttgcc gtgctacact gttggagtgc cgccttcttg gggggggggg   60
ggggggcact aacaaagagg taaaggacga gtatgcgtag ggaaaggcgg tggcgttgcc  120
tataacgagg tacaaaggga caaggccaaa accgtcaacg tttaacaagg gactacagcc  180
gtacaggtta taatagtagt tcagcggaaa gggttaagcac gcaaaaggat aaccataggg  240
catagtgaca aattacacat aactgcgaga tgtttaggtg tagagggttaa agagacttta  300
aaggtacaag atgcaaggat gtggggggtt t                                     331

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0953113.032200

<210> 8447
<211> 566
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220093d02a1

<400> 8447

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tctgagcaat caataatcaa gttaccaca gaccaaccaa gggtagagaa actgaccac 120
ttgcattttt tctaccacga catcttagag ggcaagaaca tcacggtggt gaaaatcatc 180
gagccatcag cgagcgaggt tCGTgaagca actggggttg gaaccacttt catgatggac 240
aatgttttga cCGaggggtcc agagctgagc tcgaagcacg ttgggagggc tcaggggctg 300
tttggttgg cctctttgga ggaccgtgga atggtgatgc tcattaactt ggctttcagt 360
gagggtgagt atgctggcag cactctcagc atgcttgga ggaaccctgt tcaggacact 420
gttagggaaa tgcccattgt tggaggcacg gncgtgttca ggtttgcaa gggctatgcc 480
attgccaaga gtctttggga aatttctgac aatgagcatt ttgtggtgga gtatcatgtc 540
actggttctc atccttagat ctatat 566

<210> 8448
<211> 201
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220093d02d1

<400> 8448

cgacttggcg agtaacttgc cgttctacat gtgtgcagta ccaccttctt gggggggggg 60
gggggggatgg caaaatgtaa gaaaagggca ggtagggagt agattagtgg caacagaggg 120
aacttgaaaa gggcaggatg tggaataaaa catagagaac agtgaaccag cacaaatcag 180
catagcagat gttattttaa a 201

<210> 8449
<211> 591
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093d03a1

<400> 8449

gaaaaaccat ggcaataaca ctcaacaatg gcttcaagat gcctatcatt ggattgggcg 60
 tgtggcgcat ggaaggaaac gaaatcaggg acctaatctt caattccatc aaaattgggtt 120
 atcgccatct tgattgtgct gctgactaca aaaacgaagc agaagttgga gatgcgctta 180
 aggaggcttt tgatagtggc cttgtgaaga gagaggatct cttcattacc accaagcttt 240
 ggaattctga tcaaggccac gttcttgagg cgtgtaaaga cagtctcaag aagcttcagt 300
 taacgtatct agatttatat cttgttcaact ttcctgttgc cgtaaggcat actgggggttg 360
 gtaatacttc tagtcctttg ggtgatgatg gggctctgga catagatacc accatatccc 420
 tggaacgac ctgncatgca atggaagatc ttgtttcatc gggcttggtt cgcagcatag 480
 ggatcagcaa ctatgatatc tttctgacca gagattgggtt agcatattcc aagataagcc 540
 tgctgtaaat cagattgaac tcatacact tcagcgtgat tcttagtcaa t 591

<210> 8450
 <211> 476
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093d03d1

<400> 8450

ttgccaggca atgatgattt gccgtgctac atgtgtgcag tgccgcctgc ttggggggggg 60
 gggggggggg ggaactaata ataggtacaa cgtgtgtgga gggacgttat cacaggccag 120
 agcccagcac aacagcaggg ggtaattagt aataaacaaa cgggatagga gtaaagaaat 180
 gcaactgatga accacttgca aacagtactg gagattaaag tgcaagtgga atataaccgt 240
 aaatacttag cagatacatg gaccaaccct aggtgtatct agataaagtg agcttttaaa 300
 atatactgcc ggcaggccgg tcagaggggt gagtgagatg gttaagcact gtttagcgttg 360
 tgggacataa tgtaaaagtc aaaattgcaa acggtgtggg taattgtgtt acggggcatc 420
 agggaacaag cattatacgc gggtgggcaa ggttttactc gagctgcagt gccctc 476

<210> 8451

<211> 487
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093d04a1

<400> 8451

cttttcttct atttttatatt ctatccaatc atccatggcc gaggaacccc aaaaaccagc 60
 ctccgctgaa gaagtggctg ctgttcctgc ggagaaccca ccatctgaag ccgaagctga 120
 aaacatcgaa gcagagaagg cccagagtgg tgtagaagac aagatttccc agtcggtttc 180
 gttcaaggag gagaccaacg tggttggcga cctccccgag gcgcagaaga aagcccttga 240
 tgagctcaag aagcttggtc aagaagcgct caacaaccat gagctaactg ctcccaagcc 300
 agaaccggag aagaagaaac cagcagcaga gaagaatgag gaagttgaag tgacagaagg 360
 gaagaatgaa gctgaagtca tagaagagaa gaatgaagtg gaagtgcgag aagagaagaa 420
 ggaaatagaa gttacagaag agaagaagga agctgcagtc atagaagaga agaggaaagt 480
 ggagtga 487

<210> 8452
 <211> 416
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093d04d1

<400> 8452

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 gggggggggg gggggggggg gggggggggg gggggggggg gggggtgggg gggggggggg 120
 gtgggacggg ggaaagttcc caaaaaccaa ttttgcattc agggaaaata aatgggttcc 180
 ctagaaaacg ggggtttttg gtaaatacat gggaaggccg gttgcgtaaa agtaattttc 240
 atttaaaaag catttttgag gggttaacct aaactataaa cccggggatt taaggtttaa 300
 atttattggc caaaaaatcc aaggaattcc tattggtaac cccaggcttt caattttaac 360
 tgcgcaataa aggccctact tcagggcaaa aaaaagcatt ttctcgggaa aagagg 416

<210> 8453
 <211> 581
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220093d05a1

<400> 8453

ctcctactgg aagaattcac aaaggagtat gttcaacctg gatgaagaat gccattccct 60
tagagaaaag ccgtgactgt agttgggctc ctatTTTTat cagaacatca aacttcaagt 120
taccagctga tcattccatt cctattatta tgggttggtcc tggtagaggc ctggcacctt 180
tcaggggatt ttacaggaa agattggccc tcaaagagga tgccgttcaa cttgggtcctg 240
cattactctt ctttgatgt aggaatcgac aaatggattt tatttatgag gatgagctaa 300
agaattttat ggaacaaggT gctctgtcag agttgatagt cacattctcg agagagggac 360
ctgaaaagga gtatgttcaa cacaagatga tggataaagc tgcaaactcg tggaatttga 420
tttctcaggg aggttatctt tatgtttgtg gtgatgctaa gggcatggcc cgagatgttc 480
atcggactct tcataccatt gtccagcagc aggaaaatgt ggactcttca aggcagaggc 540
tatagttaa aaactccaga tggatgacgt attctagaga t 581

<210> 8454

<211> 498

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220093d06a1

<400> 8454

cacttcacct caatgccaga aaacatcttt acaagggtc tcacttcatg aagccaaaag 60
gggtgtttca gaatccttcc tagttgagaa caacaatggt tcctccattg ctggaaggag 120
acttgagatc acagcacgaa ctgctggggc ttcaaagaca attgaggtgg aggttgacaa 180
gccacttggc ctcaccttag gccaaaagtc tgggtggtggt gttgtcatca ctgctgttga 240
tgggtggtggg aatgcagcaa gagcagggtt aaaggcaggg gaccaagtcc ttacactag 300
cagtttcttt ggggatgaat tgtggcctgc ggataagctt ggatttacta aaaccgccat 360
ccaagcaaag ccggactctg tctactttgt tgtcagcagg ggtgctgaag tagacgttaa 420
aaagctcaca aagcgacctg ctctgctcg atttggaga aaactgaccg agactcaaaa 480
agcgagagct actcacat 498

<210> 8455
 <211> 528
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093d07a1

<400> 8455

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 ctactcact gcaacggcgc cggagatccg tcgctctcct cctccaccac caccgcgatg 120
 ggcgccaatt ccatgctcgc cgagttctct cagcatctcg acgaccagat ctcccagctc 180
 atgcagtga agccactctc cgagcaacag gtccgagggt tatgtgagaa ggctaaggag 240
 attttaacgg atgaaagtaa tgttcagcct gttaaaagcc ctgtgacaat ttgtggcgat 300
 attcatgggc agtttcatga tcttgctgaa ctgtttcgaa ttggaggga gtgtccagat 360
 actaactaac ttgttatggg tgattatgtg gaccgggtgtt attattcagt tgagactgtg 420
 tcactcctcg tggcactgaa agttcgggtat cctcagcgaa ttactattct tagaggaaac 480
 catgaaagcc gtcagattac ttaaagttta tggatttatg atgaatgc 528

<210> 8456
 <211> 535
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220093d08a1

<400> 8456

cgtgagcctt agcgagcaac agcttgtgga ttgcgatcac gtgtgtgatc cagaagaata 60
 tggagcgtgt gactcaggct gtaatggtgg gttgatgaac aacgcatttg agtacatact 120
 tcagtctggg ggagtacaga aagaaaagga ctatccatac accgggagag atggcacctg 180
 caaatttgac aaaaccaaag ttgcggctac tgtatctaata tacagtgtgg tttcccttga 240
 tgaagaacaa attgctgcaa acctagtaaa gaatggccct cttccagttg ctatcaatgc 300
 agtttttatg cagacatatg ttggtggcgt ctcatgccca tacatctgtg ggaagcattt 360
 ggatcatggg gttcttctag ttggttatgg tgaagggtga tatgctccca ttcgttttaa 420
 gaacaaacct tactggatca ttaagaattc atggnngcag agctggggag agaattgata 480

ttacaagatc tgcagagggtc gaaatgtgtg tggagtagat tccatgggtct caact 535

<210> 8457
 <211> 341
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093d09a1

<400> 8457

caccgacaaa aaatggaact ttcactatctt gaattcattt tccgttcccc actccccgat 60
 attgccatcc ccacacacct cccattgtac tcttactgat tccaaaagtt gtcacagtta 120
 catgaccgtt catgcctcat ctacggcgac gccagcgaaa cccttaccta cgccgacgtt 180
 gatctctccg ctgcgccgat atccggcggc ctgcacaaaa tcggcatctg ccaggggtgac 240
 gtcacatgc tcgtccctcg caactgcccc cagttcgac tcgccttgct gggcgccact 300
 caccgtggcg ccgtagtcac caccgcccac cccttttaca c 341

<210> 8458
 <211> 410
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093d10a1

<400> 8458

gcaaaaagaa agaatcccag gcgaggagaa agatggaggg gaaggagcag gatgtgttgt 60
 tgggagcgaa caagtcccc gagagacagc cgattgggac ggcggcgag agccaagacg 120
 acggcaagga ctaccaggag ccggcgccgg cgccgctggt tgacccgacg gagtttacgt 180
 catggtcgtt ttacagagca gggatagcag agtttgtggc cacttttctg tttctctaca 240
 tcaccgtctt aaccgttatg ggagtcgccg gggctaagtc taagtgtagt accgttggga 300
 ttcaaggaat cgcttgggcc ttcggtggca tgatcttcgc cctcgtttac tgcaccgctg 360
 gcatctcagg gggacacata aaccggcgcg tgacatttgg gctgtttttg 410

<210> 8459
 <211> 523
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093d11a1

<400> 8459

attcaccatt tttctctttt cgttctgtt ctgttctgct ttgcccctct tttctccaa 60
 tgactactca ccattctctc tctttccaac tcctctgagc ctgctcgtt aggatctctg 120
 tctcttctcg gagaccaca aaacaatgtc ttatttattt ccttctcaa caaagaacct 180
 ctatttcccc ttggctgctc agatctagta ttctcaagt cacaacctt tttgttccg 240
 ttagcgggtg gagacatgag taaagaagaa ttcttgaaga tacagaaatg tgttcttaa 300
 gtgaacatac actgtgacgg gtgcaagcac aaagtgaaga aaatcttgca gaaaattgat 360
 ggggtgttta ccacagagat agatgctgaa caagggagg tgacggcttc agggaatgtg 420
 gatcccaacg ttctgatcaa gaagcttgca aaatctggga aacatgcaga actctggcgt 480
 tgcacctaac ccaacaacaa caacagtgat cataatcatt ata 523

<210> 8460

<211> 505

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220093e01a1

<400> 8460

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 acatttcaa taccgttggt taagcctct accaaaattg gttccaattg ttacacctat 180
 accaaatcct ctgcctatcc cagttttcca aaagcctata ccaaagtga ttccagatat 240
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 aattccagat gttatgccaa taccaaagcc atctcccata gtggaaaaac caaagccaaa 360
 gccttgccca gtagccaaga aactatttcc tactccggtg attaagaagc ctataccaaa 420
 gccatcttcc atagtggaaa aaccaaagcc aaagccaaag ccttgccccg tagccgagaa 480
 acctattcct acgccggtga ttaag 505

<210> 8461

<211> 487

caattgaaga cattcgccag ggaaagatgg tagtggttgt ggaccgataa gatcgagaaa 600
at 602

<210> 8463
<211> 497
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220093e02d1

<400> 8463

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gggggggggg gggggggggg gggggggggg gggattcgta acttattaag gggaattagg 120
actgagcata accgataaaa ccaagggagg gagaagatat acgacactgg taaagtagaa 180
tggggtgagt agccatagga gacaccaatg cgcagatagc acgaaagcga ttaaaaacaa 240
gcaacaaatg acccttaagc atggttacac gttacaaagc agcaattgtg aaaacctatt 300
aaacaaaaaa gaatttgcaa agactaagct ttggcgtagc ctatgagcgg gtaacaagta 360
acagcaatag ggggccgaca cttgcttgct tgcaacagga gtacataaag caagaacaaa 420
aagtaaagta taaaggcaag aagccgggtg agaagtgaga atgggcgcca ggtagtagta 480
agagccaaag tgaccgt 497

<210> 8464
<211> 592
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220093e03a1

<400> 8464

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gacctctcc accacctcct cctcctcctt cagctcctcc gtcaccaacg acgccagcgt 120
ctccgacggc aagatcggcc cttttctccc tccctccgcc gccaaagccac ctctctcctc 180
cgcccaccgg aaaaagtgcc ggcagcgtgc cgccgcactc tccaccaaac cctcctgcca 240
ctgctccaag aaaaggaaat cagcgtgaa acgaacgatt cgtgtgccgg cggtaaagtc 300
caagatcgcc gatatcccat cggacgagta ctctgtggaga aaatacggtc aaaaaccgat 360

gactagatat aatgcctccc aggttccagc tgaatggcat gggttggtcc acttcataac 360
 cgatcacaca ggagatgagc ttcttttact gaaacaaaaa aggtatggtg ttgaacacaa 420
 agaaaatttg tctggggaag gtgaacagta tatctatcat tccaaaggac atgcacttaa 480
 tccagggcag agaaactgga ccaggtacca accatgggag tccaaggctt gaactatgaa 540
 tatggtgctt gtgaagttgc gatgttctgg atgctttttt tttttta 587

<210> 8467
 <211> 464
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093e04d1

<400> 8467

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 acgctaacgt tgggaaatat cagtttagaa gatagacacg aagcatacga gaggggaaca 180
 cagggaacc gtaaactcaa gggagtgtg ggtattatga aggtcgggga gacggaaaaa 240
 caacaaaaaa atgttgggat attgtggaaa gcaacctaaa ataaaggggt accaggaaaa 300
 aaaaaaaact agttacaata gcgctaattg actactatta gaggtagacg gtaacttggc 360
 catgttttagc cggccgattg ccgttacggg tgtgctttgc caggaacgct agcgttgggc 420
 caagcagaca gagatgcggt attgggttta catagagggg tggg 464

<210> 8468
 <211> 547
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093e05a1

<400> 8468

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 ctctgcggcg cctgtgactc taaggttcat gccgccaaca agctcgcatc gcgccacccg 120
 cgcgtcgtgc tctgcgaggt gtgcgagcag gcgcccgcgc atgtgacctg taaagccgac 180
 gccgcgcgc tctgccttgc ctgcgatcgc gatatccact ccgccaaccc cctcgccagc 240

cgccacgagc gcatccccgt cagcccggtc ttcgagtcg tacattcagt caaggcctcc 300
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 accgaggagg ccgaggccgc gtcattggctg ctacctaata caaagacaga tctaaattcg 420
 tctcagtact tgttctccga aaccgaaccg gttccttaca tagatctgga ttacgcggcc 480
 atggatccga agacggagca gaaaagttcc gncaccgncg acggcgctcg tccggtgcag 540
 agcaact 547

<210> 8469
 <211> 433
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093e06a1

<400> 8469
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 tcgagagaat gataagagtc agaaggatga ctttggtgga cagacatggt tgcctgtctc 180
 agagctaaaa tctggattcc gatcagtcctc tctccatgat gaaaagggtg acaaattaaa 240
 atctgtgaag cttctgatgt ggtttcagtt tagatgaatt ataggatcag ccatataata 300
 atcttagata atggatatga ggtcattgta atgataatta tatttatctt tagctgcttg 360
 caatgggtatt tctggcttta ctatgttata ttttctgcac catcaacatc aatataaaac 420
 agtattaaga act 433

<210> 8470
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093e07a1

<400> 8470
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 ggtgcggtgg tgtgctttgt tgtagtcgtc tccgatcatc atcgagaatg cgcaatctgg 120

ttagagattc tttgttgta ttgaataata gttagttaga ggtttaatct tcatgattgt 240
 atgtatgaaa aaagatatgt agtgagactt tcggttctat gaataaattt ttatactttg 300
 aaggattagt cttttagtct tactcaaaag atatcttaaa ttgaaaaaaa aagtgattat 360
 ttatcatgca cacactataa ttacattaaa taaaatatta ttcaattctt ggacaagata 420
 gttcttattt gacttgttct gattaattgg attggcttga tccacatttg aagttttgga 480
 tca 483

<210> 8473
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220093e11a1

<400> 8473

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 tatgtacaaa tgtgtgtatt tattattatt attattatta ttattacgca tgtacgtagc 120
 aaatatatca caggttatca gtcaaagtgt tataccaagg tccatgaaca ctaactgaaa 180
 tagtggtgct cacaatcaaa acaccagcag tttccactac cttatcagtc agaataccag 240
 cccaacttt catgagagcc atttctgcta atttcctccc acggatccca ctttcaccaa 300
 gcacaacgcc gcgcaaagca atataaatta attnaaaaaa aaaaaaaaaa cagaaataaa 360
 aaaccacttc attgtacatt aaaaaaatat tg 392

<210> 8474
 <211> 522
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220093e12a1

<400> 8474

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 aaagtttaag tcatcatggg taaggaaaag actcacatca acattgtcgt cattggacat 120
 gtcgactctg ggaagtcaac taccactggt catttgatct acaagcttgg aggtattgac 180

aagcgtgtga ttgagagggt cgagaaggag gctgctgaga tgaacaagag gtcattcaag 240
 tatgcctggg tgcttgacaa gctcaaggct gagcgcgaaa gaggaattac cattgatatt 300
 gctttgtgga agtttgaaac caccaagtac tactgcacag tcatcgatgc ccccgacat 360
 cgtgacttta tcaagaacat gattactggt acctnccagg ctgattgtgc tgccttattc 420
 attgactcca cactgggtgg ttntgaagct ggtatttcta aggatggaca gactcgtgag 480
 catgctcttc ttgctttcac ccttggtgtg aagcagatga tc 522

<210> 8475
 <211> 586
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093f01a1

<400> 8475

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 tggcacaata tttgatagtt ttgtgtacat ttaaagaaca gcttcagcaa catgtcagag 120
 tccacgccgt cgaggctgtc atggcctgcc gtgatatcga aaatacctta caagctctca 180
 ctggagttag tttgggagaa ggaactggtg caacaatgtc agatgacgaa gatgatttac 240
 agatggattt ttctttagat caatctagcg ctgaaggga tgacatgatg ggatttggtc 300
 ttctacaga atctgaaagg tcattgatgg aaagagttcg ccaggaaacta aagattgagc 360
 tgaaacaggg tttcaagtca agaattgaag atgtcagga agaaatatta aggaaacgta 420
 gagctgggaa attgccaggt gacacaactt ctgtgttgaa gaactggtgg cagcaacatg 480
 caaagtggcc ttacccaact gaagatgaca aggcaaaact tgtggaggag acagggttgc 540
 agcttgagca aattaatatt ggttcatcaa ccaaggaaa cgtaac 586

<210> 8476
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093f01d1

<400> 8476

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tcttgatttc ctcaaaacaa caacacgttt aattttcac tccttccttt tctatcctat 120
 tctctccct attattatta ttggtacac nttttcttc ttctctgat acaaagacac 180
 catgagagga caggaagatc agcaatctag ggttttctgt gagctctcgg ctctggtctt 240
 caaccttctc cggtcaccgt cgatcgtgcc ggagcctccg gcgaggcggt cgccggcggg 300
 ggcgcagatt actccggcgg ggttcgcgtc gctactgcta gggatttcgg tggcgctgat 360
 gctgtgtgga tcggtgactt tcttcacggt gttcatgctg atgccgtggg ttctcggatt 420
 ggttatgggtg ttttacgtcg ctggcgctgt ttctctctc tccgttctcg ggcgttctat 480
 tctctgttac gctacgccac gtaaggatct ccctgagtgg aaacttatat aaaaagaata 540
 ataatcgaat tgaccagtac tatactggtn tgtgcctgcc tgctcatgct gccattagac 600
 aatga 605

<210> 8479
 <211> 489
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220093f03d1
 <400> 8479

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 gggggggggg gggggggggg ggggggggta actcacctag aatgtgcgtt gtacgggaga 120
 gagagagaga gagagagagc cgtgtcgcac gtagttcagt agatggggtt gggtagggga 180
 gacgatagag aagtagagat tagcgggcca aagcaaaaa aaagaaacaa aagtacaact 240
 tgaaaaggta aaggggataa aacggagacg aaacataaag ttacgaagcc atagtaaaac 300
 atacgactgc ccaataacgt tgtaaggtgg cccctgcctg aggccgaaag aaaaacacaa 360
 cttaaagtta taaaacttgc agagttagca tgttgctggt gacgcacaca acggtacgaa 420
 gtggtaggcg gtgagcccta ctagcactac ctacctataa aattacgaga cgatgccgta 480
 aggtcagga 489

<210> 8480
 <211> 590
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093f04a1

<400> 8480

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tggtgtaaag gccattagaa gctttagaaa ttntctaatt gagttggtgt atagtgttga 180
aggggggtgaa atctggagcc cagtttggtta gttgttactc acttcatctg taagctcata 240
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gatgaacttg agaagaggat gtggaggac aaaatgcgtc acaagcgatt gaaagaacaa 480
accaagtcca aggaaggac tgatgcaaca tagcanaggc aatcccaaga gcaggcatgg 540
aggaaaaaga tgtcaagagc tcaagatgga atactgagta catgctgaaa 590

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<210> 8481
 <211> 574
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093f05a1

<400> 8481

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gtgattctgc tgtggatgta gggaacaatg actatcttcc cacccttttc aaggctgatt 180
accctcctta tgggaggac tttgttaacc accaacctac tgggagggtt tgcaatggca 240
aattagctac tgatttctact gctgacacat tgggtttcaa gacctatgct ccagcatatc 300
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ctggttatga tgaaaatgct gctactttga atcacgcgat tccgttgtcc caacagttga 420
gttatttcaa ggaataccaa ggcaagctgg ccaaggtagc tggcagtaaa aaagcagcct 480
taatcatcaa ggatgcgttg tatgtgctca gtgctggaag cagtgactnt tgtgcaaatt 540

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ataatgtcaa tccttggatc aacanagtct acac

574

<210> 8482
<211> 539
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220093f06a1

<400> 8482

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cgcggtccga agacgaagat agtgtgtact ttgggccctg cttctcgatc cgtagaaatg 120
accgaaaagc ttctgagggc agggatgaac gttgctcggt tcaatttctc tcatggcacc 180
cacgactatc accaggaaac cctcaacaat ctcaagactg ccatgcacaa cactggcata 240
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aagggggatc cggagatgat atccatgagt tacaagaagc tgtctgtaca cttgaagcct 420
ggaaatacca tactgtgctc tgacgggacg attactctca ctgtcttgct ttgtgaccct 480
gatgctggta ctgttagatg tccgtgtgaa aacactgcaa cgtgggtgag agaaaaatg 539

<210> 8483
<211> 519
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220093f07a1

<400> 8483

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tcttcttctc agaaatatgc cttctcagaa agttgaaacg ggtcatcaag acacgggtcca 180
tgatgttgca atggattact atggtaagag gctggccacg gcttcatcag atcacacaat 240
taagataatt ggggtgagta atacggcctc tcagcatctc gcaacattga ctggtcacca 300
aggacctgtt tggcaagtgg cgtgggctca ccctaagttt ggttctctac ttgcatcggt 360
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catgtgtttg atgaccacaa gtcattctgtg aattcgggtg cttgggagcc tcacgagttg 480
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<210> 8484
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093f08a1

<400> 8484

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 aaccattcc acttggtgag aacgttctgc agaagcatgc tgcattcttt gacttgaata 180
 aagatggtgt catctacca tgggagactt ttaaagggtt gcgtgaaatc gggactgggg 240
 ttttgctgtc cgttggaggt gctattttca tcaatgtgtt tctcagtcag agtactcgtc 300
 ccgaaagtt tccatctata ctttttccaa ttgaaattaa aaatatccaa cgcggaac 360
 acggcagtga cactggagtc tacgatactg aaggaaggtt tgtaccttca aaatttgaag 420
 aaatttttaa caagcatgca catacacatc caaatgcttt gacatatgat gagttaacgg 480
 agatgataag gcnaatagag agcc 504

<210> 8485
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093f09a1

<400> 8485

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 gctcttccc tcgtcgtct cagagatccg gttctccgag atccgaaacg acgatcgctc 180
 catcgttccc ttgatcagt ttggattcac ccacaagggt cgccttgagc tcagcgtttc 240
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cctggattcc tggcttcatg tcttccagca actggaggat ggcgagattc ggtgcgccct 360
 tcaatccgat ctggtcaagt ccgtctacac ctccaattct ctcaacggca aggactcttt 420
 cagcacgctc tancaagaag aaaccgacgc cgatcagtac aacctcg 467

<210> 8486
 <211> 521
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093f10a1

<400> 8486
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 ttcgctgtgg cagaaataca cctacgatcg tctccacctt catttgagga agcaagtgtg 180
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 catagactac ttgggaaact acgttaacca ctttgagatc aagcctctgt accagcgtgc 300
 agtggagttg gtggagtatg atggatggaa agggatttgg agagtgaagg ctcagaatag 360
 aagatctggt gagcttgaag aatacgctgg aaagtacctg gtcgtggcca gtggcgaaac 420
 cgccgagcct cgtctgcctc aaattcaggc tttgagagtt tcaatggaaa gtgattcact 480
 caactggcta caaaacggaa cgagtntaag aataacatgt c 521

<210> 8487
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220093f11a1

<400> 8487
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 taccagtata ttctggagac aagtgtctac ccaagagaac ctgaatccat gaaagaactg 180
 agagagttga cagcaaaaca cccatggaac atcatgacaa cctctgcaga cgaagggcag 240

ttcttgaaca tgctccttaa gctcatcaat gccagaaca ccatggaaat tgggtgtctac 300
 actgggtatt cacttcttgc caccgctctc gctcttcttg aagatggaaa gatcttggcc 360
 atggacatta acagggagaa ttatgaattg ggtttgcttg taattaaaaa agcttgggtg 420
 tgaccacaaa attgaattca ga 442

<210> 8488
 <211> 493
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093f12a1

<400> 8488
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 catgaccgtc catgcctcat cgacggcgac accagcgaaa ccctcaccta cgccgacgtc 180
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 tgaaacgatg gcg 493

<210> 8489
 <211> 607
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093g01a1

<400> 8489
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 aagaaggttt tgaatgctta cccttacct tgggcttact tcaactctct cacttgcacg 180
 tgggtctctt atgatgttga tctcttgggc cactgggatt gctgaagccc caaagactga 240

tcctgagttt tggaagtctt tgttcctgt tgctgttgca catacaattg gacatgtagc 300
 ggcaacagtt agcatgtcaa aagttgcggg atcattcaca cacattatca agagtgggtga 360
 acctgctttt agtgttctgg tttcaagatt tcttttgggt gagagctttc ctgtgccagt 420
 ctatctgtct ttaattccaa tcattgggtg atgtgcactt gctgctgtga ctgagctcaa 480
 tttcaatatg atcggnttta tggnggccat gatatcgaat ttggcatttg tattccgtaa 540
 tatcttnttc gaaaaaggca tgaatggaaa gtctgttaat ggatgattac taccatgtta 600
 tctattt 607

<210> 8490
 <211> 156
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220093g01d1

<400> 8490
 catgccttgc cggcagattt gccgtgctgc actgtgtgca cgtgcctcct tgctttgggg 60
 gggggggggg gggggggggg gggggggggg gaatgaataa tagtaaatag ggagagaggg 120
 agcccaagta gcataaccga ctagaaaaag gagtat 156

<210> 8491
 <211> 551
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220093g02a1

<400> 8491
 ataagatcac tatcaccaat gacaagggtg gattgtcaaa ggacactggc attcctcctg 60
 caccagggg tgttcctcag attacagtgt gctttgacat tgatgccaat ggtatcttga 120
 atgtctctgc cgaagataaa accactgcc agaaaaataa gatcactatc accaatgaca 180
 agggtagatt gtcaaaggaa gatattgaga agatgggttca agaggctgag aagtacaagt 240
 ctgaggatga agagcacaag aagaagggtg aggccaaaaa cgctttggaa aactatgcat 300
 acaacatgag gaacaccgtg aaggatgaca agattgggtga gaaacttgac ccggctgaca 360
 agaagaagat tgaggatgca attgagcaag caatccagtg gttagacagc aaccagcttg 420

cagaagcaga tgagtttgag gacaaaatga aggaattgga aagcatctgc aatccaatca 480
 ttgccaagat gtaccaaggt ggtgctgggt caaaacgtgg tgggctggt gcagcaaagg 540
 atgagtatgc t 551

<210> 8492
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220093g02d1
 <400> 8492

tgccggccag caatttgccg tgctacacgt gtaggagtag cgccgtgctt gggggggggg 60
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 taacatacaa gaaggttgat accgaaaccc tagaataagg cacgagatta gtgaagaagc 180
 aaaagaatct agagaataga agctggaaac taatcggtag agtacaaccc aaaaagacgg 240
 gcaagtttag gtaataaaaa gtagctcagg aaaagttaag gaaaaaacta gaaacgaaaa 300
 gaacggggga aaataccgag tgccaccaa ctaatggtag ggacgctatg gttgtaagt 360
 gcccttacc attaggggta ttacaaccac cactactaga ttagatggg cagctattac 420
 gattattt 428

<210> 8493
 <211> 619
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220093g03a1
 <400> 8493

gtatcacggg aacgttgtct cctgagaaaag ttgctgggaa gattgttttg tgtgaccgtg 60
 ggttaactgc taggggttcag aaaggctccg tggtgaaatc cgccggagcg ttgggcatgg 120
 tgctcagcaa caccgctgcc aacggcgagg agctggtggc ggatgctcat ttgttacctg 180
 ccaccgcggt tgggcagaaa gccggtgacg ctattaagaa gtatttggtt tctgatgcga 240
 aaccgacggt gaagattttg tttgaaggca caaagttggg gattcagcca tctcctgtgg 300

tggcagcgtt tagctctaga ggacccaact cgatcacccc gcagatcctt aagccagatc 360
 ttatcgcgcc aggtgtcaac atcctagccg ngtgggtccaa ggcggtggga cccaccgggt 420
 taccggttga taacaggcgc gtggatttca acatcatttc tggcacgtcc atgtcgtgcc 480
 ctcacgtgag cggcttagcc gcgctgatca agtcgggtca ccctgattgg agcccagccg 540
 cggtcggatc ggctcttatg acaacggctt acacagttta caaaaccggg gagaagctgc 600
 angacagcgc aacgggaaa 619

<210> 8494
 <211> 494
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093g03d1

<400> 8494

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 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 120
 gggggggggg gggggggggg gggggggccc ccttaatttg gaaaaaaaaa cccaaccgca 180
 aaccaatttt tggaaacccc cccattataa attgggaccc caaaaccccc tttaaaaaaa 240
 gggtttttaa ccgggaaaat tccgtttttc ccaaaaaaa aaatttatcc ctttaaaagg 300
 ggggtttttg gccaaaaagg ggttttcccc aaaaaaacc ttttttttta gagaattttc 360
 cccctttttg gggaaaaaac cctatttccc gaaaatttaa tgggcgcccc cctaaaaaac 420
 ccgaaaggaa gaaagccctt tttgggaaat ttgggggttt catttaagga cttttttttt 480
 tgggggcccc cccc 494

<210> 8495
 <211> 502
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220093g04a1

<400> 8495

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 tctgacaaaa cccttccaat tggaagggtga atcagattta gaaccgtctt atagagctcc 120

caatctccta catcgcttgt taagtttact caagaacgtg cggccaggat cagatctcac 180
 acacttccaa ctgccagctg tgtttaactt cccaaaatct caacttcaat gctatgggtga 240
 atcagtgtac tgcacatctt caaacttgct gagcaaatgc aacaatgggc agagtccact 300
 ggacaggttc acatcagtag tagcatggag catatctacc acacgccccca catcttttgg 360
 tgttgctcct tataatccca ctcttgga gaccacccat gtttccaagg gcaatctcaa 420
 cgtcctagtt gagcaggtat cagtcaaccc ttcagtatct gcccttcatg caacagatga 480
 gaagganaac attgagatga ta 502

<210> 8496
 <211> 548
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220093g05a1
 <400> 8496

tgcacttgaa gggaagtatc tgggtacaaga tagttgttat gatttgattg acagtgctga 60
 tgcagtcaat ggacatcaag agcttcagca tctcagtttc tcttgatcatg taccgaatgt 120
 gactggaaga gggtttattg aggtggaaga caatggctctt agcagctggt cctttccatt 180
 catagtggca gagcaagaaa tttgtttaga gatctgtacg ctagacaatg tcattgaggc 240
 agcagagatg gctgatgaca accagataaa aactaaccta atggaagaaa agactcaagc 300
 attgtatttc atacaagaaa tgggttggtt ccttcataga agtcgtgtga aagttaggct 360
 aggtcccatg gcacctgtcc aagatcgctt ccattttaat cggttcatat ggcttggttg 420
 cttctctatg gaccatgact ggtgtgctgt gatgaaaaag ctcttgaaca ttatctttga 480
 gggcactggt gatactgaga tcatgcctct gtgaagtagc tttgttagag atggtcttct 540
 acacaagc 548

<210> 8497
 <211> 277
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220093g06a1
 <400> 8497

ctcacacgtg acgggtggcc atttggtagc tctgtctgtt gagaataagg aggggtatct 60
gattctactt gcaacatatt gactccaaat acagatagac tggaccatgc cgtcaaaggc 120
tgaactaagt ggaggtaaac aatgccgaga atcgcaattg ttgtatgaag agtgccaatt 180
agctctgaac ctcgccatga cagacatatt ggctgacttc ttcgtgactc ataagattga 240
ccgtgcctat aattaattgc agacatacat attgttt 277

<210> 8498
<211> 506
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220093g07a1

<400> 8498
ctcacacatg aggggtagcc ggttgcgagc ttcattctgt ggtgatgagg aggtggatct 60
acttctacct ggtacagcaa gactccaaat acagcttggg gtgaacatgc catcaagggc 120
agaacagatt tcaggaaaac aaaaacaaga aaagcaaattg tttcatgaag tgtacgatgt 180
ggtgctgtac cttggtatca ttgacatatt gcaggactac aacatgacta agaggattga 240
acatgcttat aaatctcttc agtttgattc attgtctatc tcagctgtgg accctacgtt 300
ctattcgcat cgcttcctgg aatttattca gaagggtgtt ccaccaaatg caacgacagg 360
ttaatcaaga taattatggg gttatattta accagtaagt ntatttagaa agtgtgaata 420
ttgcactttt catgctttgc tcagaatttt tatgtagggt gccacgtggc accttgtgat 480
ggtggtatag gaatcaagtg aatatg 506

<210> 8499
<211> 107
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220093g08a1

<400> 8499
gattactatt aggagctagc aattttgaga tgctgagata atttttatgc tcgaaaaaga 60
agaatataag ggccggcgcc ctctattgag ctcgtctagc cggaat 107

<210> 8500
 <211> 442
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093g09a1

<400> 8500

gttctagatc gcgagcggcc cccttttttt ttttttttta ttaaaaaaag tacaacaacg 60
 gattacacct ccaaacttgg tcacttaaac aaaaatctaa aaatgaaaaa gaaagaaaaa 120
 atacaaaata tttgtgtttt tgttgtcttt tatactagtc gtggcaacct acaggggtgc 180
 caccactta cgtcacgagt cagcagccgc atcgatcaaa acgacatgat cgattcgagg 240
 ctctctataa cggttctatt tgagtcacca caatggggct ccgaaccacg tgcttcccat 300
 ccgtccacgt cagcgacccg aacaccgccc cggacggacc catcttcaga ttacgggtgt 360
 accccgccac cgtcaccaca tagcttcgct tgttcaccgg ctgcgagaac acgagcctcg 420
 acggctttac cgtcacgctg ac 442

<210> 8501
 <211> 111
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093g10a1

<400> 8501

cccttatcct aatacaactc cagtgggttt ttattctttt attacaatga tttccaacaa 60
 gacgggtgtc catggtcatg gccacgacc tgatcctgtg caatgggttat g 111

<210> 8502
 <211> 488
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220093g11a1

<400> 8502

cctttctcct aaaacatctc cagtgggttc ttcttcttct attacaacaa cgtcgtccaa 60
 gaccatgacc atggccatgg ccacgatact gtcctgttc acggtcttcg cggtttcate 120

ggccctagac atgtcgataa tctcgtacga caacgccac gccgccacgt cgcgcagcga 180
 cgaggagctg atgtccatgt acgagcagtg gctagtaaag cacggcaagg tgtacaacgc 240
 gctcggagag aaggagaaga ggttccagat cttcaaggac aacctgcgat tcatcgacga 300
 ccacaactcc caagaggacc gaacctacaa gctcggactg aaccgggttcg cggatctcac 360
 caacgaggag tacagggcca agtacttggg aaccaagatc gatcccaacc ggaggctcgg 420
 caagaccccg agcaaccgat acgcgccacg tgtcggcgac aaactacctg aatcggttga 480
 ttggagga 488

<210> 8503
 <211> 498
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093h01a1
 <400> 8503

cggctcgagt gagaaaacag aagaaaacaa aatggaagac acagtttctg cgttgaggtc 60
 tttgatggtt tctcactctc cgccgctgga tgccttagtg gtgccctctg aagattatca 120
 cctgagcgaa tatgtgtctg cacgagacaa gcgccgcgaa ttcgtttccg gcttcactgg 180
 aagtgccggc ttggcactta taacaaagaa agaagcactg ctgtggacgg atggacggta 240
 ttttttgcag gctgagaaaag aacttagtgc tgggtggaag ctaatgcgaa ttggtgaaga 300
 tcttgctgta gatattctgga tggccgataa tttgccaaaa gaagcatccg ttggngnttg 360
 atccctggtg catttcaatt gatactgctc aaagatggga gcgtgctttt gccgaaaaac 420
 agcagaagct ggttccaacc tcaaaaaatt tggatgatga aagttggata aatcgccac 480
 cggcagagat aaatgctg 498

<210> 8504
 <211> 463
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220093h01d1
 <400> 8504

cagcctgccg gcaatttgcc gtgctacatg tgtggagtgc cgctgcttg gggggggggg 60

gggggggggg gggggggggg gggggggggct actacaagag gcagagagga gagagctgcc 120
 ctagacgaag ggcaaccaag aattaggttt aagcagagtg aaaagtgaca ggatacgagg 180
 agccagatcc aacatatgaa aaggatctgc aattagtggg aacggaggga atggggtaat 240
 gttaaataata ccgtagctat tgataccggg acgcctgggt ggtacttagc taggggtaat 300
 ggtagttaa gagcccccta caagagggtg atagcgcctc gcagaccacg gtacttaagg 360
 gagtgttgtc ccatggaaaa cccgtaccgt aagtaatggg cgtgcagagc cgcttttagcg 420
 aagcgcggta aaacagaacg gattgggagt attaaaaggc aaa 463

<210> 8505
 <211> 548
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220093h02a1
 <400> 8505

cgtcaatcaa tcgtgagtct gagactgagt tctcatctct caatttaaaa ccctactcgc 60
 cgttgccgcc caaccacett ctgtccaccg tcgccgtcgt cgcctttgca gtcggaagg 120
 tgcaccacgt caccagcaca tcaagcccgt cgcgttgga ggtctcaagt taataagtga 180
 cccattgggt cgactattga tccaatgcct tgactgggtc aatcaccatt tggcttttaa 240
 aactatgctt cgtagttcct aggccaatgt ttgcatttgc ttccttatac actctctgga 300
 actgtcacag gattttgaga cagctgacaa gagacaacaa gatatggcag agaggagcaa 360
 agagcttctc aagtttgagc ataatggcac acccctttct tccttagaat ccactcttct 420
 tgtttgtgat aataaaaaag aatcagacag tcaactagg agactcccc ctgatggcat 480
 gtcctcact gccccacttt cccaagcca acttttaggg aaggttaaag acttcctagg 540
 agtgatgt 548

<210> 8506
 <211> 489
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093h03a1

<400> 8506

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agggagggaa actggagagc gacatggaat tcgacgagca agaggagcat gaggaggagg 60
aggaaatggg gatgccggag ccggcggtgg cgggtggcggc gccgcagact tttgactcgc 120
ggtcgaaaat cggcggcggc gaggcgcgga agagcgcggt cggcgtggcg gcggtgcggt 180
accgagaatg ccagaagaac cacgccgtca gcttcggcgg ccacgccgtt gacggctgct 240
gcgagtcat ggccgccgga gacgacggca tgctggaagg cgtcatctgc gccgcattga 300
actgccaccg gaatttccac cgcaaggaga tcgacggcga gatgtcctcc ttccaccacc 360
gcgcgcaacc tccaccgncg ccgttgcaacc accaccacca attctccccg tactaccacc 420
accggtccc gcagcacccc accggcgncg gctacatcca ccaccacctc acaccttcga 480
tgtcgcagc 489

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<210> 8507

<211> 381

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220093h03d1

<400> 8507

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tgaccttgc gggcaatttg ccgtgtaca tgtgtggagt gccgccttct tggggggggg 60
gggggggggg ggccaacaat ttgactggca gtgttagtaa ggaaagggt aaggataggg 120
ggtgtgtagt caatccaaac agtcacacaa acaaggagat gaggagtata ataagtgtc 180
aaaggacccg ggtggattca cacgctgtgg cggaggcgct agttaaatgg gcacaatcgg 240
gtctgttata ggcagtgtac tatacaatgc gggtatacta caggtagtcc cgggtgccag 300
gtgttatattg acggcggtgc tcaagctcag tagtgagtg ggggccgtgg ctcgcaattg 360
aacgtccaat ttggggggcc a 381

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<210> 8508

<211> 640

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220093h04a1

<400> 8508

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gtaattataa aatgaaaaac aaaatcatta aaggctactat tacttggaac gcattattac 120
tttattgata aaaataagtc aaacaactct tcagggactt ctgctctgac tcgacttatt 180
tattaaaaat attaatTTTgt tttttttaat taatcaaatt gatcagattt aattttgtaa 240
aaagactatt aaatttgata agttgggtatt tttatataat tatacatata atatttatat 300
ttaatatata tttactaata ttaacattaa taatatgttt gatagacctg tttgtttatt 360
taagttggat ggcttactta ggcatacaga tttattcact tgtctatgag tcttttataa 420
aagaaatcat ataaatatgc ttttaagttag attaaaattt taaataaatc atgctaaaac 480
ttaaaaaaca atttgtaata aataaataag tcaggttgag ataatatagg atagacttat 540
gccactaaa gtttggtgaa tgcattctta aagtacattt taagtaaata aatatatgta 600
ctaantatat aaaatatctt tgtgcacata tacattaaat 640

<210> 8509
<211> 445
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220093h05a1
<400> 8509

gtttattagt attattatca ctagctacct gctatcaaag catcacaat ggcttctaca 60
gacaagcctg gcggcgaccc tgaatacaga acatcttcaa ctccagctcc tgctggtggt 120
gattacttta aatttgatgt catcctaagg tttctattgt ttgcagcatc actggtagct 180
gttggtggtga tcgtcactgc taatcaaaca gaggttattc gtgttcaca gcctgtgcca 240
tgcccagcca agttcagata ctccaccagcc tttgtttatt ttgtagctgc attgtccggt 300
actggcctct acagtatcat tacaacactt gcattactct ttgccagtaa caagccagcc 360
ctcaaaacca agttgctcct ctactttatc ttatgggatg cgctgatatt ggggataata 420
gccttagcaa caggcacagc tggggg 445

<210> 8510
<211> 527
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220093h06a1

<400> 8510

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ggcgggctcg gtgggtcccat ctatgtcgtc accgataatt ccgatgacga catggtgaac  180
cctaagccgg gaactatccg tcacgctgtc acccaaaaag gcccttctgt gatcatcttc  240
ggacacagca tgatcatcag tttgaggcaa gagctgatga tttcctccga caagaccatc  300
gatggtcgtg gcgcaaacgt gcaatttagg ggcggtgctg gcctcaccat tcagttcgtg  360
aacaacgtta ttatccacgg agttcgcctc aaggacatcg tacctaagga tgggtggcatg  420
attagggact ccgccgacca ttatggattg agaaacaaga gtgatggatga tgccatctnc  480
attnttggat ccaccaacat ttggatcgat catgtttccc tctctac                    527

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<210> 8511
 <211> 553
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220093h07a1

<400> 8511

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cttctctccg tcgatggcct caaggttctg cacatggaca ggaatgacta ttacggagga  180
gaatccactt cgctcaatct tattcagctt tggaagagat tcaggggaga tgacaagcct  240
cctccacatt tgggagctag cagggactat aacatcgata tgaaccctaa gtttattatg  300
gctaattggca atttggtgcg ggttctcata catactgatg ttactaagta tctctctttc  360
aagctgtgga tgggagcttt gtgtttaata aaggaaaggt tcataaggtg cccgcaaatg  420
acatggaggc cttgaagtct ccacttatgg ngctatttga aaaacgccga gcacgcaagt  480
ttttcattta tgtgcaaaat tacaatgaga gtgatcccaa gacccatgaa gggatggact  540
tgacaagagt gac                                         553

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<210> 8512
 <211> 485
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220093h08a1

<400> 8512

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 ttggtacagc agctcagggt gacaaggact acaaagaacc acccccagca cctttgtttg 180
 agcctggtga gctaaagtca tggtccttct acagagctgg aattgctgag tttgtggcca 240
 ctttcttggt cctctacatt accatcttaa ctgtcatggg tgtcaacagg tcacctcca 300
 agtgtgcctc tgttggcatt caaggcattg cttgggcctt tgggtggcatg atctttgccc 360
 ttgtctactg cactgctgga atttcagggg gacacatcaa cccagctgtg acctttggtc 420
 tctttttgga agggagctgt ccttcacaag ggcgctgttc tacattatca tgcagtgtct 480
 tggag 485

<210> 8513
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220093h09a1

<400> 8513

taaggttact gtcatacatg ccgtggcaat tccagtacaa ccagctccgg tggaaagtgc 60
 ggagtataga aaacagctag ctgaagacta cggtttcagg caagttggag agccgcttcc 120
 agatgatgtt actttaaggg atgtcatcaa ttcccttctt aaggaggtct ttgagattga 180
 tgatgtgaaa gcatggaaat ctgttctgat atctgtcact tcttatgcac tgggtctctt 240
 catgatttcc aaagccccct ggtatcttct tctctggct tgggtatgga cagggactgc 300
 aataactggg ttctttgtta taggacatga ttgtgctcac agatcatttt cgtctaacaa 360
 attggtagaa gacattgttg gaactctggc ctttatgcct ctgatttatc catatgangc 420

003300 ETTES60

ctggcgattt aagcatgaca ggcatcatgc aaaacaaaca tgttacgtga agatact 477

<210> 8514
<211> 499
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220093h10a1

<400> 8514

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aagacaggaa aacatacaac agttaagcaa gtaattacac cagtgaagaa gaacaccatg 120
ccttctccaa ccgctgtttg ttcaaccaat gcatcatcaa aggactcttg tcccagatgt 180
cagcaggggt tcttttgctc agatcatggc tcacaaagca aacctgcaaa tattattgga 240
gacaaggccg caaatctggc tggagatgca tctgttgata acaattcaag tgttcatgct 300
ccgaaaccta agaagatagt tgatataaat gagccacaag tatgtaaaaa taaaggatgc 360
ggtcaaaact tcaaggaaaa ggataatcat gacactgctt gcagctacca ccctggccct 420
gctgtttttc atgaccggat gagaggggtg aaagtgcttg tgatattcat gtaaaagaaa 480
ttgatgangt tatgagcat 499

<210> 8515
<211> 519
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220093h11a1

<400> 8515

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ccaggtttac tatcatttta taaccgtcca tacagaagag atagtaagat cctcttacca 180
aattcagaga gaagtcaaaa cagcatattg tggtttttgg gccctgcagt cctcgttgcg 240
tccttcattt ttccttcaact ctatttacgc aaagtgctat ccatcatttt tgaggactct 300
ttgttaactg atttctcat attattcttc acagaagcaa ttttctattg tgggtgtggg 360
gtattccttt atctactaga ccatgtaaga agacccttgc tagtggatat cgctgcaaac 420

aatagtgata ctctaccccc acaattggga cagagagtct cttcttgtgc taccctgggtg 480
 cttagtcttg taattccaat ggtgactatg ggtttggtc 519

<210> 8516
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220093h12a1
 <400> 8516

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 aggaagagga ggaagtctgt agggaaaacc aatgggctgt tgaataagtt ttatgattct 180
 gctgcttttg aaatttcaat gaaaagatat gccctatagt ttctagtta tgtttctgac 240
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 caatcttgaa attgtaagta atagttgaat atggtgggag gaatgctttt gaatctggta 360
 tctcagcttt attgttnaca aaagcaacc tatgcacaca caagctggga acagtgatga 420
 tggaaagtac cctttaag 438

<210> 8517
 <211> 529
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094a02a1
 <400> 8517

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 gtgctgtcat ttgatgctgc ggtcctgatg tcacaggaac tagaccgggt caaagaggta 180
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gaaatatgtc ctgatgtcaa agagagtgcc ataagaaggg aaactgaagg tgaattcagg 420
 ttgttgggta ggagagaagg taatcgttac ggtggtgata ggttttttgg tttggaagaa 480
 aatgaagcca ctagcagggg aagaagagtg tcatttaaca tgggagata 529

<210> 8518
 <211> 582
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220094a02d1
 <400> 8518

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 tagataagtg gctggtaaac gatattagac tggtttcaga gcgaataaag tgtgaaactt 180
 aatgtgataa ctactgtaaa aaataaaaaca ccaaaggaa aaagcgaact aataacaaat 240
 agcaaggaat aaagttattt tctggcgtga acgggctcgt gagagaccac tggataaagt 300
 agtactaagt aagctaggtg gtagcaactg atgagcctgc tgctgctttt ggggcggcct 360
 aagggcgat aaagaagtgg gtagcggccc gggttaaaag gcaagaaacg ctcccgcatg 420
 ggcttagtgt agcgggtcca cttggtggca atacgaccaa catttttggt gtgcagaaag 480
 cggcccgga caaatggcct tataaaactt tataaggag agatagctgt aaaagggcgt 540
 acaaacttta cgcacctgcg cataatggta acttggataa ac 582

<210> 8519
 <211> 633
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220094a03a1
 <400> 8519

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 agaaggaaat ggtgtgtgta tatgtgttgg tgtatctgca tgacaccaa tcaagtgaaga 120
 aactgagtaa tattactgcc agtcaaatt tctcatttat aacaagccag cctcaggagg 180
 aaaatcacat caaggagtat tcaggagggg gttgaatatt tgctgttgct attaatttct 240

002220-ETTES60

tcttcttctt cttcaatata tctgtctgtt ctaatctccc tctagatttt tcttttgcta 300
gaattctctt gcttatgagt tttttttcct gagattgggg atgtgaattg agggaggact 360
caaattgcat gtgggttttc cagaattctg attcagttgt ggggttcaag gattaaaaga 420
aactctcttc aggtgaagca gaagaaggct aattgctata tataggactt gctattagag 480
acatggcggc gtcattcttc tcagcatcgc tctttggatt tagagcagag gatcaacata 540
accagatgaa agcacagcat ttcctgacac catcncatc aacaacttca gctgcacccc 600
acccagaag aataagagaa accaccctga aca 633

<210> 8520
<211> 209
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220094a03d1

<400> 8520
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cagcggaggg tgggccctgg cagtgagcgc ccggtggctc agcaacagag gctgtagctg 120
gggtagagag atatgaagcc attccagtca cgtcctatgc gcacacttag tggtatcatg 180
cggattgtga cccagcagca tcaggttta 209

<210> 8521
<211> 314
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220094a06a1

<400> 8521
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ctacaatttt ggtagcatgg caatgccatg cgtacgatat gttccctctc cgaatgaaca 120
ctggctatgg tgcccgtact ccggaggtga aatgcgcaag ttggaggctt gctgtggaag 180
cacacaacat ctttggtttt gagaccattc ctgaagagtg cgttgaagca acataggaat 240
acatccatgg cgaacaatat agatcagact tcaaaacacg taacctacat gctctacttt 300
tatgccagag acct 314

<210> 8522
 <211> 565
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220094a06d1

<400> 8522

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tttaaagggg atggtgtcaa cctaataata aacgaacaaa tgggtcataa gaaatagacg 180
ggctagtaaa gagtacattt gtagactaaa cagaaaatat gttatgttat atgccataat 240
tgccacttca aggttcaactg gatcgctctc gctagccaat ctatagacca caggagacac 300
ctcagtaact gaatttaatg caagagtggc acttaacgtt accgcaacca aaagtgggct 360
agaggtcatg gaggaagcga tagtgtgaga cccaacgaaa ttcgtaagcc ttacaaacac 420
acgctattaa gaacccttaa aaacgtaggc aacaagccca cgaatagact gataatccta 480
cgcagaagta tagagctacg ttgctatatg atttgaagca accgtatagg cgactgggta 540
tagacaccaa gcggtaacga gctgt 565
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<210> 8523
 <211> 191
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220094a07a1

<400> 8523

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tgagtcgagt ttttgatgag atatataaaa tttgctgctt agtgggtggta cttaagaagg 180
tttaagataa t 191
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<210> 8524
 <211> 268
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094a07d1

<400> 8524

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aacgaaagag ataagaacgg gactagcaaa aagagatagc gcaagggttag cagcagtggc 180
agaggcatgt cgcgcataat ctgcagaatg cagcactgcc ataagtgtaa gacggggaat 240
cagaggaggt aacgatgatg cccgcagc 268

<210> 8525

<211> 545

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220094a08a1

<400> 8525

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ctggaatttg ctgtggtggt gtcggagaag gtgacactcc ggctccactc gagccaacta 120
ctcgcccttc caggcgccgg agtttggaca tcttaccctt aaaatacatc gctgacatgg 180
cgggtgccgc gtcggatggt tcacggaaac gtcccaagct ggatctcagg gaccgcgata 240
acgtagtcca aaattgacgac gaatccactg gacacaaggt ggtgaaaaaa gaagccaaaag 300
tggaatcca cgacaatatt tccgaaacga aaaacgtaac tgttgcggtat gcttcggaag 360
ttgaagattc tcctaagttc ggcgtgacgt cagtttgagg caggagaaga gacatggaag 420
attccgtttc ggtgaggcct tgcttcaccc aaggcttcca ctacnttggc gttntcgacg 480
gtcacggttg ctctcatgtc gcgactatgt gcacggagcg gntacacgag atcgtgaatg 540
aagag 545

<210> 8526

<211> 380

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220094a08d1

<400> 8526
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 taggggttggc tgttgggcgg gggggaattg ccccgtttag gataggataa gtaatagggc 120
 agaaactaaa acttataact tttgttggtt gtgcagggcc gtggtttcgg tggaatcaac 180
 gttgcaaaat aaacccgggg ccggggctgg tgtcttaatc ggaaggaagg ccacgggcag 240
 caggcgtcgg cagtgtgttg taaagtaatt attattatct gtataggagt tcaatgagct 300
 tgtcttaatc tgaatggccg gaataaaagt catctaggcc actaactttc cgtccaattc 360
 gttcctcctt atcgaagggt 380

<210> 8527
 <211> 390
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094a10a1

<400> 8527
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 tcccccaatt cccaatggcg aacgactcgt cgtttttgtt cgccggcatt cgtttcgata 120
 gaaagaagtt cggcgccgat attgccaggt tccagaaaaa agacagtgat actgattcgg 180
 cgatgatttt gagcgccgtc gaagacgaag gcgagaaaac aatagaacct ctggaagaag 240
 agaaagtcgc ggcgtcaacg acgaataaga ggaagcgcaa gggaacctct tccgaaacgg 300
 tcgaaggatt caatgtgttc agaagttcga cgtctgtggc gcagtcgaat gatgaagtcc 360
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<210> 8528
 <211> 493
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094a10d1

<400> 8528
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tatgggaccc cctggatacg caccctgcac cacgagagca tcataagtag ccgggaaagg 180
gacctaatat gcttggctag gactgggaaa tcgcaggtgt gtggccgtct aaggcttgag 240
ttgtatttgg tttgggttag tcgcggctag ggggcccaag ccctaagtag catatgacct 300
gcattccttg agggaaacaaa ggtgaaatat tatgccaaag ggtaaccgga aaactagcgg 360
cgtaggtgag ctgaggatac cctgagaccg tgccggggcg ccacaggcaa gtgtggggcc 420
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tgcagctgcc tag 493

<210> 8529
<211> 553
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220094a11a1
<400> 8529

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gaaatgtaaa aggaagggtg gaagacaagc cagcgcaaag taaagacata tagaataaag 120
agaagacgac gaagctgagg agaggtgggg atgaaatata gctctagtag cgatggcgga 180
tatgttgttt aaactaaata gccgcgagac gaaaaagagg gaactagggc taaggccatt 240
aaaagggcag ctgggaaaac tggtaaagtg gcctgttggc cttgccaatg gtaatggact 300
agacactggt agcgacgtgg taaatataaa gggacccgac actgcctggg gtgttgagct 360
tgtgggctgt aataaggtgc cactaccgga cagcatacta gtatgcttac ccggagacaa 420
gcacctgagc cataggtgcc gtttagtacg ggcgctgagt atatccgctg ttatatgttg 480
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taggccccct ata 553

<210> 8530
<211> 539
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220094a12a1
<400> 8530

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 ggaaggaaga ataaccataa cgggataggg ggggggttat tggatagagc ggtaaggcta 180
 actaagtcta tccaggcaca cgtagagagg tatttttgcta ggtgggtgga gctgataaat 240
 gagaggagat ggaaggttta taggcggccg cgttgggagg agcgaggctt aagcggatcg 300
 atatgggctc agaaaaccaa taataggaag gagcaaatc gacacttaag gaacatgcag 360
 ggggtgcgaa tgactttaaa gtagagcggg aagtgggaagt atggctagct attgctattg 420
 aatttaaggc ggctattgct aatagtagat ataattgcga ggcagtgtgc cgcaatcggg 480
 ttagagcgac gaatagtatg agctcgatta gggctactgc aacttgacta gatggctgg 539

<210> 8531
 <211> 511
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094a12d1
 <400> 8531

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 gcatggttgc accacaggct gaaacaagga tggaagacc atagattatt gccaaatatt 120
 cgggttaaca gtattaactg attggtgggc taacagcagc ccttgtaac gcagggtgag 180
 ccaacggtgt gcatacacag acaacgactt caacaccggt gatggtgacc ccaccgggga 240
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 ggccaacgcc gacatcagta actaccttgg tagtagtaca tacaggccac ccattgcggg 480
 gaagggtcc caagtgcctt agtcgctagt a 511

<210> 8532
 <211> 504
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094b01a1

<400> 8532

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acactctcat atataaaaga gtgtctctga taatttgatc tttgtttctt ctctttctct 180
cctttgagat ttttcagcac cccaccaagg ttttgtccga aaagcttgaa tttttcgctt 240
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tcttttgagg caaagacatg caaccctaata taaggcaagg tcctttttac cctctttgtc 360
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tcttggtggt ggaaattttg tgtcagtga gagtgatgat gacaaaagg gtgatttgggt 480
gaagtgtgag gcctatgaag caga 504
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<210> 8533

<211> 543

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220094b02a1

<400> 8533

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caaccaagca gtgaagtctt tgcactcttt gatgacctct tcttactatc tgggggcgaa 120
acagttatth tggagaagca aaatcgga ttaggttttt tgctgaagct ggtttccctt 180
gtccacgtaa aagaaatcct tctgatcact tcctacgatg tatcaattct gatttcgaca 240
ttgtaacagc tacactgaag ggatctcaaa gaattcatga tgttccaaat tcagcagatc 300
ctttcatgaa tttggctaca gcagagatta aggcaacact agttgagaaa tataggcggt 360
caacatatgc cagaagggca aaaaacagaa ttcaagaact gtctaccgat gaagggttc 420
aacctncaac acaacatgga agtcaagcta gttggtggaa gcaactataa cgttgacata 480
gagatcattt gtgaacatgt gtagagatgt ggttactact tggttgggat catatttaca 540
tca 543
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<210> 8534

<211> 528

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220094b02d1

<400> 8534

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 gcgaagccaa ccatcgacat aagcggttag gaagggcgtg cgggcgattg gaaatccgga 180
 gcaaataagg ggtgtgagat agagctgaag gaacacagaa taaaggttag gggccagcgg 240
 agaagttcaa aagttaccgc tagctaacgc taatatgggg ggagggcccc ggcagaggag 300
 gcaggggacg ccacgccaca agtaacatta gtggcacaac aaacgcaagc caccgccgca 360
 gcttgtgctg aacccaaaca gcctagtggg tgcaaacacc cgtggggggg aactgcccgc 420
 agccggtgtg gcctagaaac gcgtgcaaat aagcccagc tgtgggttgg caatggcaca 480
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<210> 8535
 <211> 500
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220094b03a1

<400> 8535

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 gaaaagcatg atgattgggc gactctgaag gcagagttag caccggtgta catggtgtgc 180
 ggaatggtgg caatggctgt ggcaattgga tcacacactg cgtttcaaca actggcgcgt 240
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 gatcgacact tcaacttcgc caccaaattc atcgatgggt ccttcttaag gaaactctct 360
 cacattcaag acaacaacc cacactccac gaccctttcc accctaattc tttaccact 420
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 ttaatttca ctatttctaa 500

0 6 3 7 8

<400> 8536

<210>	8537
<211>	525
<212>	DNA
<213>	Glycine max

<400> 8537

3845

525

<400>	8538
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<400> 8539

<210> 8540

<211> 557
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220094b05d1

<400> 8540

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taacttggtg gttcaacttg gtggtacctt atgattttga tcttaattaa acaccatttg  180
tggtattatc aacctacgcg taaatgttaa cttgtaaagt aagctagtgg gcaaccacaa  240
cctacggctt ccatgtatac tactggtgcg catactagtg agccgccggt tccaccgcct  300
gtagctgctg ccagagcacg gtgttttggg ttgaaacaat gggatgatga ctagtgggct  360
gccgccccgg cggtgactac ttagagggcc acttcggagg ccccggttga atgggcagtt  420
ccggaacaca atggaaagta gctagctgtt aagctggggg aggggtgtgt gtgtgnnggt  480
atgtggtggt gactggtggc aggtagctaa cggagagcta atgccggtgc ggagagctag  540
atgagtgaga gtttact                                     557
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<210> 8541
 <211> 542
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220094b06a1

<400> 8541

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tcctgcggca aaatcaccaa cataacttac ccatttcgat taaagggcca ccctaaaagc  180
tgcggcgaca ataggtatga gctagcttgt gaaaacaatg ttactgtgtt acatttgtac  240
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ccaggagtgc atcaacaaac aaattgctcc tcccttcctc gctatttctt gtctcgctcc  360
aatttcactg atacttacag tgatatttac aacatggatc cataccaagc tgggtcaatat  420
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gaattcaatt cgaggctatt gcataacctt gggcatgacc attcaaaagt ctacttctga 180
 ctacgtaact ggtacagggg tattatgctc ttcttccttg gagaaaaagt gtgcctttca 240
 aacaacaaac gaggacacaa aaagcaacaa tgttcatcaa tataactcaca ttgttcacct 300
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 atcattagaa gtggtacaca aacatgggcc aagcttccaa ctgaataatc atgaaggcaa 420
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<210> 8546
 <211> 503
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094b08d1
 <400> 8546

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 tagggagggg ggggcttgag cgggtgggaa aggggaaggg agacggggag attagcggag 180
 cggaagcgta gagcgctcag ggggtggaga ggggcgataa cagggcagca ggtaaggagt 240
 gcacaagggt aacgatgggc ggcagggcga gggcgcaact aacgggtaag gccaggtgc 300
 agcgacctgg gccaccggtg gtgatggttt accagctggg taaggagta aggagattat 360
 attatacacc aggttacgca ggcacgcacg ccagagcaag agccaaccat tggagcaggc 420
 agtagctaag ccacaactgc cgaataaaac ttggtacagt aggaaagatg tgttgagaa 480
 atttgctatt agcagagtag tag 503

<210> 8547
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094b09a1
 <400> 8547

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cggggccac ttaaggcaca aaacccact ttagatccgt agagcaaggc ctgcgccacg 120
 agattcccga ggctgtgcaa tcagcaatct agcaccagca aaaatccgct cagatatagg 180
 ttcttctgaa acaacctaca ggaacctcac ttcacaatcg aagagaaccc tacggacacg 240
 ctctctgaag tgaacaaaaa tatagaaact gctcatgggtg catatgtcta tcctgctgca 300
 cagcaaatgc tatattcatc aaggaaaagt tctaaaggat ggtactactt tggaggaaaa 360
 taaagtcact gaaaatagct cgattgcaat tatgtgatca aagactaaga gttcatctgg 420
 cgaaggatct actact 436

<210> 8548
 <211> 357
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094b09d1

<400> 8548

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 gggggggggg gggggggggg agtaaacgaa taaaaccag gcagggcagg aataacttaa 120
 catttaggac cataaacagc acgggtagta aggagactaa tggaaaatgc ataacaggga 180
 ggaaagatag agagtagaat ggataaggcc ggataaaacc ccattaagga gtgggaacag 240
 caccatggct gaactgtggt agtaaggctt ggtgttactt agcatgtact agtggttagt 300
 aggttacctt gaacttgtat tagcaccagc taaaaggtag gggtaggaac tgggtta 357

<210> 8549
 <211> 565
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094b10d1

<400> 8549

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 tatacattaa tacacctgta gggggctgcc aaaatactgg caacagcctt caattggcct 120
 acaggataat agttacaaac aagtgatttg ttatggccgc tgttcgtggt ctccgccgag 180
 ctaaagtggg cgcaacatgt ggatgcccaa cattaggatg ggccaccgac aactgtgca 240

tataaggcat aagcgcaacc ttaacagtta acataaccac ccgagggtgt tacattacta 300
aaccggcagg gggctgcccc actactggca acagccatct atctgcctac atgataatag 360
gtaaaaccac gtgatttggg attggcggtg gtcgtgcacc ccaccgagct acagtgggcg 420
caacatgggc ataccaaaaa tgagtattgg ccaacggcaa acggtacata taaggcagaa 480
gcgtaaccta aaaagatacc ataaccaacc gagtttttta cattaatagc acggcagtgg 540
gctgccaac taatgccacc agcca 565

<210> 8550
<211> 482
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220094b11a1
<400> 8550

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cgcggtctacg ccagccgact acaatgctgt aggcgtggca gcccggccct atatctgcgt 120
ctgcgagcgg ctagacatgt aacgtaagga agtggcacgt ctctgctaca gatgccataa 180
agttagatat tattccagca caaagctgcg ctaagccagt cttaacttaa gggctcagct 240
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ggcttgcccc aagcgccatg ctaagccatg ttgaaggcgc caccgtagta gtgcgactgg 360
taagatatga gcaatagagt aatgatgggt agctcgcggt agcaacaacg taggaaaggc 420
gttgccatga ttatggggat ggcagagtca ggaagcagga tcgaatagcg agggaacagc 480
tg 482

<210> 8551
<211> 463
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220094b11d1
<400> 8551

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gcatccagag taaggggttt agaggtcgaa acaaaaacc ttggagaaaa ttaaactctgt 120

tttggtttga tcaccttctg tatgtgtgac ccggggaagg ttgtgtggtg tgtgctagtc 180
 tggtagcggg ggtgcaaaca gcggtgtctcg cgagcggccg aatgccaagt atcacgtatt 240
 cacacacagt gtcaacatca aggttcgctg ggtccacgga ggtccacgcg ggcccggcta 300
 tcgacattat tgccggagct gggaaggcat gggcagcatt ctaaagagct ataccagctg 360
 agttcgcaag ccagagcctaa caagccggca acccggcact ggggtgtataa tgtgaaaccg 420
 ccaccgccgc cgtagccgcc gtctgtgccg cgggtgcagg caa 463

<210> 8552
 <211> 514
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094b12a1
 <400> 8552

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 gggggggggg gggggggggg gggacccaag aggtacaagg gctatgatgg cagaagaagt 120
 ggcagcaacg cgaggtatta aaataaaaga gggggaagag taaagagaag gcgcggaggg 180
 caaaggtaga agtcaagata agtgtgaccg tgggtgccggc aataacacaa agctcgaaca 240
 caggggtgta ggaggaaaat agcatggtaa ggcagggagt atccaagata gagtgcgtga 300
 gattagaatt gtagcagggg ttgggggcag cgtggaggta atcgggggtg taaatgccag 360
 acatggaggt tatggagtta agctagtagg cattatagca gtaccgccgc agacgctgct 420
 gaacatcaac gacaattgcy ctaaagcctt taacgggagc ggattgccga ggtatttagc 480
 gagcgtattg ggccgccaca ggggtagtat aagg 514

<210> 8553
 <211> 601
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094b12d1
 <400> 8553

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 tgtgtgtatg aaggtgaggt aggtagtgag accgcgtgga gtgagtgagt gagcaaaaca 120

tgaatgtagt tttccgtcat ctactgtatg acgtcctcct tctttggggg gggggggggg 180
 ggggggtacg gagagcaaaa aagtcggggt aaagttaggg aaaatgtgcc cacgggatta 240
 actaagggtc aagaaagcgg tataatggta tagaaacatg ttaaagcggg ttccgaataa 300
 cgctaagcgt tgattcaagg cgaatggggt tgggtgataca ctattgcgcg gagaagagat 360
 aatatacata aacggataga atacgctaaa tgggtgaagta agaagtagtg ttggtaggat 420
 tagtggtggt acggcttgtg ctattcatgg ttgtagaagt ggggtgtacc ctactgagca 480
 gtggtatcac ttgtagacaa tgggtttgtg gttagatttg gattaataga ttaggcaata 540
 aaactttgtg gcctagatag caccgtaaag ggcgccatta agtcatagca cattggaata 600
 a 601

<210> 8554
 <211> 503
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220094c01a1
 <400> 8554

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 gaagcatgca catagaaacc ccagaaactt ttgctgatgg tagcaaaaac ttcgatgatg 120
 atggacgagc taaaagaact gggacttgga ttactgcaag tgctcatatc ataacggctg 180
 tgattggttc tggagtgcta tctcttgcac gggcaattgc acagatgggt tgggtagctg 240
 gtctgcagt gctctttgtc ttctcttga taacataact cacctccact cttctcgtg 300
 actgttaccg ttcacctgac cctgtacatg gcaagcgaaa ctacacatat tctgaggttg 360
 tcaaagccaa cctaggagga agaaaatttc agctgtgtgg attggctcag tatataaatc 420
 ttgatggtgt aacaatcggc tacactataa ctgcatcact tagtatggng gcggtgaaga 480
 agtcgaactg ttacacaaac atg 503

<210> 8555
 <211> 518
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094c01d1

<400> 8555

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ggatttgcgt ggtacatgtg tgtagctgcg cctgtcccg tttggggggg gggggggggg 60
taagcagaaa agcaggcgtg agaagaggcg atagaggtgg gacacggcag ttgatgccga 120
aaagggataa tgaagcttag taagagggaa gaggcaattg ggcgaaacga gaaaatcgta 180
ggacgcatag gccttctact gcaaaaggca cgactagcat aagggtgaaga catatgctct 240
gattggcaat tcatgtgcc a ctggatcgat ctcgctagct catcgtagac tgtggtgaga 300
cgcgatttga aaggtaaagt atgccttcgt cggggataat cgtcgcatgc ccaaaatttg 360
cctcggattt aatggaagtc ttggctacta tagtttttgg gtcttactgc ctcgaagact 420
caacaccttt ctattcagtc tttggtttaa tacggctcta cttgcaagcc tcaagcccat 480
ctctttgcga gtcctctagg aactctctc ccgcgccg 518

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<210> 8556

<211> 315

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220094c02a1

<400> 8556

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ttggctgctg ccgaaggaga ccataaactt ccaagcatca atggaagtgg agacttgaag 120
caagctttac agaaacttgg ttccattccg tcaagcagat tattggcagt tgagggtgta 180
tggaaccac agaatgagaa cgatactctc tcagaacggg agttacttga agattacccg 240
cttttacggc ctttgaagtg ggggatgcc a tgcttgcnta ctgctactag cctcttatat 300
agctatgaac tgaga 315

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<210> 8557

<211> 583

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220094c02d1

0953113.032200

<211> 478
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094c03d1

<400> 8559

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aaacgactta tgcttttaat cagtttaggg tttggcatgg tgtgatcgca actgttggcg 120
gggctagacc actgacggca aagcggtcac ccaaagctac ccaaaccaaa caaaagtctt 180
agtaggccgc gtgtaattgg agggcgccgc ctgagccggc gcctccgtat aaggccccgt 240
aagtgtaagc acaagccggt taataagcag agacaccata ataacaaaca gtagcggctg 300
gtggttagaa aacttcgtta aatttgggcg tagtttatac aggagcacia acaagctcac 360
caaacttggg gactgcccct gccaaagatt atacagttaa aacaatggag taaaaggggt 420
ggtaatagta ttaggataaa aaggccgcag aaatgtaaac aaatgaagag gggctagc 478

<210> 8560
<211> 409
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094c04a1

<400> 8560

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aggatcacac atatttcctg atgttttgct caacgatatt gctggcccag aaggagatcc 120
tttgttggtg agtttaaaac tatccgtaga tgttttgggt gtttcttgct catgtgcact 180
gggtcttgct acgcccacag caatcttggg tggcacctca cttggggcaa gaaaaggact 240
tcttattagg ggaaggggatg tgctggaacg cttggctgga ataaattata ttgctctaga 300
caagacagga acccttacca aaggaaaacc agttgtgtcg gccataagct ctatccttta 360
tgagagaatct gaaattcttc ggcttgctgc tgcagtggag aaaacagca 409

<210> 8561
<211> 594
<212> DNA
<213> Glycine max

002220094c05a1

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220094c04d1

<400> 8561

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tgagtagtag tagagtataa gcggtaaatg caccaaatat gcaagatata ttgcttgata 120
agtttaggaa gtataagggtg aaacacgatg cagaatgggg tacaactagt gaacggaccc 180
caaccgccag agcctttgcg ggataaccca aggtgattac agccaacata aaggctacgt 240
aacacatgtg tataactggt gccgtaacct gtacaacacg gtaacaagca acgcagcggg 300
agacttaaag gctaatagtc taattggcga acatggggcc tcgctgctgg ccacccatag 360
caaaacagat ggcgagagca cgagggcgtc aagctaactg gtcattgggtg ttgctggcgg 420
agcggtaggac ggactggctg gtaggcattg cgcgtagcgc ccgancggcg tgatggngc 480
tggtcaggcg ggtggtaaga agcgcacgga gaaggacatg gcgtgctaca cataacgtaa 540
agcggctgct gagccgcaga aaacacggcc cgcgacccgc caaaggngaga gaga 594

<210> 8562
<211> 314
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094c05a1

<400> 8562

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gatgtcctca cattctcatt ctctcttctc ctctcttctg attgccacct cctcaatggc 120
caacaggact actcatttgg ccatgccatc gacagacaat tgcatacgtc cttgaatcct 180
ataatactat cactcttgca gatctgaagg actcacatat tgatggatct agatccctat 240
ttcaagtcca aaaaaaccac gcgatctctt ctaatcacia cacgtgtata agagaagtat 300
tgcatgtcct acat 314

<210> 8563
<211> 579
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220094c05d1

<400> 8563

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cctaaagtgc taggctcagc ctcttggtca actgtggctg tgggctctgg gtgcgaattt 120
gaaggggtct tagtcggccc cttcaacttc agaggggttag tcaaccaact atgttacact 180
tgcagattgt tcttagtacc agttaaggac agtaatgtaa ggttaacagt taaaggtgtc 240
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aacaaaacgt taggcaacag aaagtaagga ttagataagt tggctacaag cacaggctgg 360
tgtgttacaa aaaacccgta tgccagctgc accactagcg gccaaacctg tagctatcgc 420
tgccgcaatg atacaactac cgccataact ggaaaacca atgacaaata tanaatagcc 480
acaaacgcaa tgcgcaaatg tcacgattgc acggacacaa aaacaggtag catgccaatg 540
tanaagcaca acagtgggtan nacagaaagc accaataca 579
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<210> 8564

<211> 522

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220094c06a1

<400> 8564

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caaatgctgc agaagatttc tcccaattcg ggatttcaaa agaggaaaaa gataagcttg 60
ttggggaatt gattaggtac atgcttttca aaacccatca aaattctggg tgccccatta 120
agagagagga actcactcaa ctcgttacga agaactatca tcagcgtaac ctctctacct 180
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attcgaaatc atatattctc ataagtcaac ttcttcctaa tgtatatgaa aaatatgttg 360
tggatgttaa tactgcgcac ctatccgat tcacttttgt cataattagt attgtatatc 420
ttgccggtgg taaaattcca gaagaaaatc tatggagcca aatgaggagg atgggtttgg 480
gtgaaactga atcaagtcac ccagtccttg gaaatgttaa gc 522
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<210> 8565

<211> 523
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094c07a1

<400> 8565

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ctcggaagca ccaacacagt tggatcggag ttgctgaagg ttgctccttc tgaatttgag 180
gggacagtga gaaccgtcgt tgatgtgttg caagaagtca cctctattct ctccgagttc 240
ggttctggct tcggcgattc acgtctttct aacgccgttt ctgactgtct tgatttgctt 300
gacatgtcct ctgatgaact cgattgggtct gtctccgcca cacagagtcc caaagggaag 360
cacaacagca cagggaacac aagttcggat ttgagaacat ggctgagcgc agcacttgca 420
aatcaagata catgcattga cggattcgac ggcaagaacg gcatggtgaa ggggtctagta 480
tccactggta taggccaagt gatgtcctta ctccaacaac ttc 523

<210> 8566
<211> 562
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094c07d1

<400> 8566

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ggccttaggg ttggggcagg gattgaatag tgggaggctt atataacatt tctgatttaa 180
ggggtttggc aatatacact tagagttgtt ggtatttaat ggcgtgggaa aattgttgct 240
tagtggtgga atggttggcg agcaagagtg aagacctagt aacggagggg ccgtgacaga 300
aggggtaaga tgggtaaata ggcataaagc gtgggggtgt tagggatatc gcaaaagtat 360
aagaaatacg catatgcgga ataaaagggg ttagcttttag aatagacgca aaaggagcac 420
aagatgttaa ttttagcagc gggtttacgg gtaagaagca attgttgcct gcatacacgt 480
caaaaactac attggcgacg acgactagct tcgcggatgg ccatacactg ccgtatagag 540

cacctctagt tagcaaagtg ta

562

<210> 8567
<211> 500
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220094c08a1

<400> 8567

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aaaaaaagca gaaaaaaagc caagggttgg agccaacaaa aataaacaca aagcacaagt 180
catggaaaga ataatggctg gaagtgaac aaaggttgct ttcaccctct tggccacttt 240
cgccattgtc attccatgcc ttgaggctgg cattgctgag ttcgacgatt atctcaaagc 300
ccaagctgat gaagcccata aaattgctct tgattcctat gtcccagagc cccacgatgt 360
cgcccatgaa ctcaatttcc atgttcatat ggcactggaa aactccacaa ggaggggaact 420
aaggcagagg aaacttagag gaggaggcaa atgtcaagcc tncaacccca ttgacgcttg 480
ctggagatgc aataaagact 500

<210> 8568
<211> 602
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220094c08d1

<400> 8568

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tgacgttgca gcccttgccg gcacctaggt aagcgcaggc cataaaggca cggtggtaat 180
acctaaaggt tgacgtagag cacaactagg cttaagctag gcggtgtggc tgtggggctg 240
cccctgactg agcggactac gctatgacgt attatgcggt agtagcgtat gacaatatag 300
acttatttac aggccggcat aaagcagaga aagctgccaa cctggcagga gggggatgag 360

gcncgactac caatgccacg ttgtaatggc cgggaggggt gcagggcgct gtaaacagag 420
 taggataacc caacgccgca ttgttaacag aagctgtaac agcgccacgg actggtaaaa 480
 ccaaacacgg acaggatgag acgctgaata agcaacaggt gaaagaaaga acaagtacag 540
 caacaataaa gaaggataga ggagcgagac gcgagagaga gagagagata gagagagaga 600
 ga 602

<210> 8569
 <211> 318
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094c09a1

<400> 8569

ggaattctaa aggaaagaac agctgagctg gtcagaaaat caatggcatc atccttgggt 60
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 ttaccttccc acttcttctc tcttgcccat cttcccactc caattcacag atggaacctt 180
 cccaatctgc ccaccaatac cgagctgtgg atcaagcgag acgacctttc cggaatgcag 240
 ctgagtggca acaaagtgag gacataggag ttctgatgg ccgatgccat tgcgcattggc 300
 gccgactcta tcatcaca 318

<210> 8570
 <211> 547
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220094c10a1

<400> 8570

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 cacttcattc ccaaatccca ctggtttctc tgttgtttct gcaactgtttt gaggaggttg 120
 aaggggaaaa gtgggtatca aagttggcat agcagaagtg caatcagctc tagtttcttc 180
 tcttccaagc aacaggaaca tggatgcaca agccaagaaa aaagcattgt ttcgtgctaa 240
 attgaatgcc cagaagaagg aaaaacgcat agaatctccc cttgtaagggt ataatagaatt 300
 tgatcaacct gtttgccggg tttgtgatgt tgggtctaaag tctgagtctt tatgggatgc 360

acaccaagtt tctcgtgaagc atcgtgaggc aataagtaat ctgaaagcga atgcagctgg 420
 gataactcag gcatacaatg catagccttg tgctgattcc agcttttcca angggctaac 480
 cagacattct ttggactcac aattcatacc gncagaagct tcacactagt ttctaaacct 540
 caatcat 547

<210> 8571
 <211> 541
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094c10d1

<400> 8571

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 gggaaccggt aactagtgtt ggcaaatgtg gtgtaactgt catcccaagg gtgtactggg 180
 gtgtgtcgga ttgtatttag taaacgggggt tgtggtgcc gcggacggga gtccagttcc 240
 cctaggctaa cagggcagta gggatatcaag tagagtagga gtaaatatgt ttaggggtgc 300
 ccgatggaag gccagcccg gcttgtccag ggtctatgtg tagggtgacc cgggagcgtc 360
 cggctcgggc cgccagattt tgggcatgtt caagcactgg cattatcaaa acaggccggt 420
 ggccgcagtc tacgcggtaa ggtaagaacg gtcccaggc aggtggggat aaaacgcaa 480
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<210> 8572
 <211> 498
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094c11a1

<400> 8572

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 aaaataatag gttgtgaggg gtaaagtcgt atcaagcatc gagtacaggt ctagaaataa 120
 taaaatttga ggtgtgtaag cagacacata ggcggcagca gaacaaacca aacacaaacc 180

cgactgaagg agatactcta gctgaggcag cggagttttg tcgcgcacatgt ggaataatgg 240
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 aacatgggct gtgtgcgtag cgtgaatgta tagccgattt gcgtagggct gagtgcataa 360
 gtaatcttag ctgttacggc tcttatgcgc accacaatgc tcgggaactt tagggctgag 420
 ttgccatgga tctggtgctt acatttataa tcgtacaatt ctcaacgtgg gattgtgaat 480
 agtgagcggc tgggttgt 498

<210> 8573
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094c11d1
 <400> 8573

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 tagcacaagc cggcgcgtgt aacaagtaat atgcagctgt aaccagggaa taacaactgt 180
 aatgtactgc tacctacgtg gtaaaactaa tggttgccgt ggaacaggct aaggggtcat 240
 agggataact tgtgtgagca ttggcggtaa gttttggtaa aagtgccggg gcgccaccta 300
 aatacaccgg ctgcgccgat tcccatgcga cacataatag ttggcggcgc gaaggtaaaa 360
 gtgttaccaa tggcgggtgaa gcttatatac gagcgcgggg cgcatacgcg ttagttggtg 420
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<210> 8574
 <211> 525
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094c12a1
 <400> 8574

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 gggggggggg taagaaaggg agggggcgag gagaagacca ataggaacaa tagtgagata 120
 acttaatagc aaagaaaatg gggattaaga ggggtgaccaa agaaatagag accaagccca 180

caaaaggcag gaactggcag gatataatgg ccgccagga gggctttgaa gtgctaggaa 240
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atttcttgat cagaggtagc tgcactttat aggccagaaa gagtgtgcga taggccagaa 360
gctaatagct aagggggtag caagatgatg ctgaggggtg ctgcccctta agtatttggtg 420
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<210> 8575
<211> 539
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220094d01a1
<400> 8575

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tgctaagtct tctatggtag gaggggagac tgaggcactg cagaagctta aaaaatttgc 180
agctgagtgt gcagctcagc cacacaaggg gttaaggat ggaacacaga gtatatatgg 240
tgccaacttc tcctgcaaga tttctccgtg gttggcaatg ggatgccttt cccctcgcac 300
aatgtatgaa gaactgaaga agactgccgg cagagtcatt tctgcttcgt ccaaccggaa 360
tgatgggtgt aatggctcgt ccagaactgg aacaaattgg ttgatgtttg agttgctatg 420
gagggacttc tttaggtaac tttttttgt gcacatcttt tggctttgct tgaaacttca 480
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<210> 8576
<211> 406
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220094d01d1
<400> 8576

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aaaccatac ccaaaatatg tggaggatgg ctaaattcag tcacactagt taaagataca 120

tagatactta agaagaatta gacataacga ggcctgaggg gaggtaaaac tataagacag 180
aactaaatta tatatatagg ggacagccac agatgccgcc caaggttggg caaatgtagt 240
ttggttgtat ggcaatcagc cactaagcgc gagccaactg caatgccttt agcgtcctgg 300
ggtacatggc cagtaggcgg ttgtgcgcgc agggggtttg taaggggtgct tacggccggg 360
ttaaattggg gcaaactggt taagcttggg caagttcgac gttaag 406

<210> 8577
<211> 502
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220094d02a1

<400> 8577

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gcagactgtg gaggatctca ttcaatcctg ctctattatc atatggacag cttcggctct 180
ccatgcagct gttaattttg ggcaataccc ttatggaggt tataatcgtga accgtccaac 240
tctagccaga aggtttatcc cagaagaagg aaccaaagaa tatgatgaga tggatgaagga 300
tcctcaaaag gcataatctga gaacaatcac acccaagttc gagaccctta ttgacatttc 360
agtgatagag atattgtcaa ggcatgcttc tgatgaggtc taccttggcc aaagggataa 420
tccaaattgg actacggatt caaaggcatt ggaagctntc anaaagtttg gaaacaaact 480
ggcagaaatt gagggaaaaa tc 502

<210> 8578
<211> 331
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094d02d1

<400> 8578

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gtcacaaggc aaaagagaat agtgagggta aaatagacga agataaaggg gcgtctttgt 180
 aagacaaatg tggcctgtaa cggccaagat gaacgagcaa acggtgaggc ggtgctggcc 240
 aacctggcg aggggtggcag atgaattcaa accttggcca gccaatTTgt aacgcacaga 300
 agacaaagca gtaactaagt ttaatgcaag a 331

<210> 8579
 <211> 479
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094d03a1

<400> 8579
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 caactactcg ccccttcagg cgccggagat tggacatctt acccttaaaa tacatcgctg 180
 acatggcggg gccgccgtca gatgggtcac ggaaacgtac caagctggat ctcagggacc 240
 gcgataacgt aggtcaaaat tgcgacgaat ccactggaca caaggtgggtg aaaaaagaag 300
 ccacagtgga aatccacgac aatatttccg aaacgaaaaa cgtaactgtt gccgatgctt 360
 ttgaagttga agattctcct aagttcggcg tgacgttagt ttgcggccgg agaaaagaca 420
 tggaagattt cggttcgagc gggcttgctt taaccaaagg tttcactact ttggcgttt 479

<210> 8580
 <211> 557
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094d03d1

<400> 8580
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 actgttaaaa gccagcagca gcagaacctg tgttactggg cttcgcaaac caacaaaggg 240
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 atgttttgtt tgctgactgt gacgaacggt taactatagt agagcaaagg gactacgacg 540
 gtggtgaaaa ccggcaa 557

<210> 8581
 <211> 408
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094d04a1

<400> 8581

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 gattcccgag gctgttcaat cagcgatcga gcaccggcga aaagcggcga agatgaaggt 180
 tttcgtgaag actctccagg gccctcgctg cacaatccaa gagaaccgca ttgacacgcg 240
 ctatattgag tgcccagatg aaggaactgc gcatagaatc tacccttgct aggcataatg 300
 aattagatca acctgtttgc cggatttgcg atgtgagttc taaagtctga gtctttatgg 360
 gatgcacacc aagtttctcg taagcatcgt gaggccataa gctatctg 408

<210> 8582
 <211> 482
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094d04d1

<400> 8582

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 aacttggcac catgagccca aaaacggccg cgcttgcaa agactaaaaa gtaacaagtt 120
 aaactaatgg ttattaggat taggaacccg ggtagcactt ggtgaagcaa aacgcgacag 180
 cacaagccgc agccgactaa cacacggagg gtgtgccga gcccgcatth aatgtgtatt 240
 atggaggggt ttagtgtaaa gcgactgcaa aaactgcggc tgcaactatg gtacgtatat 300

accgggtcgc ctgagctggt tatgctaccg tggttatacc ttaccaggct aaggctgcaa 360
 gattgcgtgt cgcattgggt ggattaagga gtaacgcagc agcgggatag tatggcgcca 420
 gctatataac ttaggcagcg ggtacgcctc agctggctgt cttttccgct aaatagtagg 480
 tg 482

<210> 8583
 <211> 547
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220094d05a1

<400> 8583
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 actcaccgcc cagtaatcac cacgccgtcg acggagacgc caacgacctc gttagaccct 120
 tttcccaccg cgacgacgac ggcaaacccc aaccctcac cggcgacggc gccagtcccg 180
 gaaagatatt catagggggt ttagcgagag aaacgacgat tgcgcaattc atcaagcact 240
 ttggtaaata cggtgagata acggattccg ttatcatgaa ggaccggaag accgggcagc 300
 ctcgcggttt cggcttcata acttacgccg atccctctgt gggttgataca gtgattgagg 360
 aactcacat tatcaatggc aagcagggtg agattaagcg gacgatacca aggcgggctg 420
 ttggctcgaa ctcaaaggac ttccgaacga agaagatfff tgtgggtgga attccttcta 480
 ctgtgaccga agatgaatff agggacttct ntacacgcta tggagaagtc aaagatcacc 540
 atataat 547

<210> 8584
 <211> 529
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220094d05d1

<400> 8584
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 cgacgcataa agcgacttag gaataaaatg aacaagataa ttagtgctat aagggtact 180

aaagcaagca gaaagagcag aagcatgagg aggcgtagat cggaacgggc ggtagtgttt 240
 gttggagcct aggcctttgt atgaactggt taagccacgg aagccttaag ggtacagttg 300
 ttaagccagg cttagctatt atgcgtggcg ataacgactg agtaaaccgt agtggtgcta 360
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<210> 8587
 <211> 550
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220094d07a1

<400> 8587
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 attcagcccc aagctcaatg gccggaacct ccgcgtggcg gtggtgggag gcggtccggc 180
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 aaagatggac aactgcaagc cgtgcgggtg cgccatcccc ctgtgcatgg tgggggagtt 300
 cgacctgccg ctggacatca tcgaccggcg cgtgacgaag atgaagatga tatcgccgtc 360
 gaacgtggcg gtggacatcg ggaggacgct gaagccgcac gactacatcg gcatgggtgcg 420
 gcgcgaggtg ctggacgctt acctcagggc ccgcgccaa gagtaccgtg cgaacgtcat 480
 caatggcttt gtcttgaaaa tggatattcc tanaggatag aactccccct acgttcttgc 540
 atactctagc 550

<210> 8588
 <211> 556
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094d07d1

<400> 8588
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 agcaggcggc acgacgaacg ccaaagctgg cgactgtgag cggtagtaga gcgtgggtggg 120

003313-032200

tatgaggtat cgcatacagc cccaaccccc ctaaagggtt cgtgggagcc gcaagcttgg 180
caaaggacaa cgataggatg tgctatatgt gaggagacag gatcgagtag ggtagagaga 240
accgacagta gccttatgga ccaaagatat agactggaag acaagcagaa agagcagaag 300
catgaggagg cgtagatcgg aacgggcggt agtgtttggt ggagccgtag gccgtttgta 360
tgaacctgtt taagccacgg aagccttaag ggtacagttg ttaagccagg cttacctatt 420
atgcgtggcg ataacgactg agtaaaccgt agtggtgcta taggtgtagt agtatatagt 480
ggtatagatc tgggttggct aaccggccat tgagaaaata ttggtgcaac aagagttaac 540
attggcgaac ggcctt 556

<210> 8589
<211> 523
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094d08d1

<400> 8589

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atgctgggga gggctacata tgttaagcat cagcctgctg tgtgttaatc cttatcctga 120
ggctgggtggg aacagcttca taggtaacca tatttagcgt ggtagtaagc cccaagaaca 180
gcaggattgg tttccatcca gcggtatat cacacaggac catatgccat cacaggatcc 240
caaaagtgat ccagctatt cattattaga acctggctaa gactagctaa ctgctgcgag 300
gtagtcagaa acagctggtt agtcgcaa at agcctgagtg gagagggtaa cctcgcaatg 360
caattaaagt gcacagttta gcataaccgt caatgcatct aagcggcgct tccgcagaca 420
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gtgcgttggc caccaagtaa cgtgcggcag ttggccctca aaa 523

<210> 8590
<211> 569
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094d09a1

<400> 8590

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 ttccatcggt cggtagtcg cagggtcagc ttcaggcttg ttagaagttc ctctccggt 180
 tcatctaaac atcggggaag agagagtcac aaagggcctc tgggtggttg ctttggggag 240
 atgatgatca atttgggtccc tacagtagca agagtgtccc ttgcagatgc aactgcctat 300
 aagaaattcc cttctggagc cactgccaat gttgctgttg gaattttag actaggaggc 360
 tcagcagctc tcattggcaa ggtgggaaat gatgaatttg gacatctgtt atctgatatt 420
 ctgaaacaaa atggtgttga caattctggc ctgctctttg atgatcatgc caggacagcg 480
 ttgggaattt atgctcttaa gagtaatgga gaacctgaat tcatgtttta ccgaaatcca 540
 agttctgatg tgctccttcg tctgatga 569

<210> 8591
 <211> 303
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094d10a1

<400> 8591

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 aaaattcaaa catataatag tagtatcagg cattagcaca cttcaactca caaaccttac 120
 gcacattttt tgaacagaa aatgaagctc tccgcgttgc agcagactta tctcacgcgc 180
 cgggcgaaca gcttcagagg atcggcgcag ttggattcgt ccggcgacgg ctctgtgaag 240
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 ctc 303

<210> 8592
 <211> 611
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220094d10d1

<400> 8592

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 gtaaccttgg tatactaggt cggctcctag gggaagtcag ggagttaact accatgcaag 240
 caatgaagcc acgtgaaacc gcccaaaaac aacgtgacga cgacgacgac gaaagtaggc 300
 ggtgatcaac tgttttgtcc agatactagg caacatcgga cattaaatcc gccaaagtaac 360
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 ggcagacggt aggctagcta attagacggn gaggaccggg ggggtgggtggg cggggttaagg 480
 accggggggct gctgtgttgg taaatgntcg tgggttcaag ttgtgtgggc gcagcccggt 540
 gcggtgctgg ttgattctca gaacggtgtg gtgcaactag ctttagcctc ggggtgctaag 600
 ccggggcaac g 611

<210> 8593
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094d11a1
 <400> 8593

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 acttggtagt tcaacttggg ggtagcttat gatthttgatc ttaattaaac accattttgtg 180
 gcattatcca actactcgca aatgttaact tgcaaagtaa gctagtgggc aaccacaacc 240
 tacggcttcc atgcatacta ctgatgcgca tactagatag ccgccgtttc caccacctgc 300
 agctgctacc agagtacaat gatctggttt gaaacaatgc tggatgtatc cgagcaccgc 360
 aacaccggca gtgactagct gcaggccact tcagagacac cgggttaatg ggcagttcca 420
 gaacacaatg caaagtagct agctgttaag ctgg 454

<210> 8594
 <211> 569
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220094d11d1

<400> 8594

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gtacatgatt acaacgggtt gtgttaaagc aaaatgcccg ggccgcccta agatactaag 180
caccgcctag cgcttacggc cacctggcct cgccaactaa ataatcgacg taacgcctaa 240
atgcgggttg tactggctcc acacgataga ctgcctgac ggtgaccaca ttaagagaca 300
gtacaggtta aaatacggaa ttaataactg gagggtgagc tgaaagtgtg taaatgtatt 360
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ctgaattagc cagggccgcg ccaattatat aagatcatcc tcgggaacaa tgcccgggtg 480
cagcctcacc taggtctatg cttacacatg tggaaaagcg ataatagatg cggcctgtgt 540
cctagtaaca ggcgaggggtg agtacaac 569
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<210> 8595

<211> 339

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220094d12a1

<400> 8595

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taggggtggc ttgttggttc atggggagct taggtagcat gtaggatagt agttaaacac 180
cataatgatg aatcacttcc cattcgtatt cgtaagcaag ccatgatagt cagacggcag 240
aaaactagca aaagctgcat agagcttatt cgtgcacctc ttggttatct ccgcttccgc 300
attctattgg ccgccgccct agcaacagcc atgcgtata 339
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<210> 8596

<211> 440

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220094d12d1

<400> 8596

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aaacggggag taggaataac gctgaacttt aagtaggcta ggtaacgaga gccccaaaaa 180
gcccagtagg gaccttaagg gttaaattat accggccagg atcccatatg cggttatgag 240
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tgccggacca aaactataat tttggggggc gttaataacc gcctttggca gtggtattgg 360
gccacctttg ctaggcgggc tgcaaactgc atgaattagg ggaggtggca gcctactaaa 420
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<210> 8597

<211> 505

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220094e01a1

<400> 8597

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cgtgcttttag agagctccct atctccaata gtaatctttg ctactaatag aggaatatgc 180
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tcattctttc ttcaaataga tttcaaaatg ttaagcatta tgtgttttga tatacaaaca 360
tacatgcttc ttaattgtgg gacagattct agctatccgt gctcaagtag aggaactggt 420
tgtggatgaa gaaagtttag ctttccttgg ggagattggg acacanacat ctntaaggca 480
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<210> 8598

<211> 564

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220094e01d1

<400> 8598

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 gggcgagata ttagataagc gtatatgtat ttgggaacat ttcgaagtgt gtgggggagg 180
 ggggtgggga gtatggtata tgatgtagta gataaatagg ggtatggggg cgacgaggtg 240
 ggggggggtg tggccgagt acagcagtat aacaaagagt gattaaatag gggttggcga 300
 taaaataagt tatcacctat gttggtaaat ggcggttagc taataaatga tgcaccaata 360
 tttatatggt tacacattaa acagaaaaag acccaaggaa ggtggaaaga attaaacggt 420
 caaggaagca aaggcaatat tgatttcctt attagtaggg ggggataggg tatgtgcggt 480
 gggctgtgaa aaaaacttag ggcaagaaac taaacgataa gaataaccat agctaaggaa 540
 ggccgacgct gtaagaagga agtg 564

<210> 8599

<211> 431

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220094e02a1

<400> 8599

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 cacaagaggt tcttccccac ttagagcctg aattgccacc agaaaaaccc cctgaagctc 120
 ttgctgcagt atcctccatt atgagcctca tttgcttggc tgaggcccag gcagtaacca 180
 taaggaaggc tgaagagaaa ggtacttctt caagtctcct ggcaaagttg catcatggtg 240
 ttacactttt tcttgaagaa gctattggaa ttttccatac agttgttaca cagtgcaaag 300
 acatttcac acgcttgctg gaatttatgt atttctgcaa gtgtttacat gagttgaaag 360
 gtcagcaata tcttgcagaa agcctgaagg ctcgtgggtca aataggggct gctattggag 420
 ttcttagttc t 431

<210> 8600

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220094e02d1

<400> 8600

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ggaatgcaaa gaaaaagtac acaaggtagt ggccgaggag gaaaaagaga cagattcgac 120
gaaggatagt tagggggaaa gggtaaaggg tggtttataag agtctcggag gcaccccaca 180
cgtacactta gcaatgggcc atgtacagtg atgtaaaaca gctttcagct acatcaaagc 240
tgatgtgaac aagattaata tggtttgggc acaaaagaag cgaaactggt tagaggcaaa 300
gaagcgagtg cgtacggata atacagtggc acaaccccaa ttaaagtggc ggtagttact 360
atttgatgct tagcatgctc gacccaatta atttagatgc gcaagtaa at ggtaggagct 420
ttctgacgat ggtgatttta 440

<210> 8601
<211> 526
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094e03a1

<400> 8601

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atggagaaaa taaaggatgc ttgtgaaaac tggggattct ttgagctggt gaatcatggc 180
atacccatg acttattgga cactgtggag aggttgacca aagagcacta caggaaatgc 240
atggaagaga ggttcaagga atttatggca agcaaaggc tagatgctgt ccaaactgag 300
gtcaaggaca tggattggga gagcaccttc cacttgcgtc acctccctga atcaaacatc 360
tcagagatcc ctgatctcat tgatgagtac aggaagggtga tgaaggattt tgctttgagg 420
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gggtacctca agaaggcttt ctatggatca agaggaccaa cttttg 526

<210> 8602
<211> 590
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220094e03d1

<400> 8602

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ccgcaggtgc tgcgccagcg acccaataag catgagtggt ttatttgggg taacctgcag    180
gatttggttg agcccaccca tgggcggaat tattaattga tgcccaccgg ggctaagcct    240
aaaggactga tgcaggggat gctgcatata ggcccgggta acattgagct gttactagag    300
tggactttat agctagtacc caaaaattgt tggaggccac taaatgggct ggtactgcta    360
gtgccggagc agcaaaagct gctgatgggc aagtatctca gggtcggcgt ttaatacggc    420
acggagggta accaagatta acctaactgc cttaacccgac tgcctacgaa aaaactactt    480
gtaagtagta accagctcgg cgagcgctgt acgctgccaa ctacgcatgn gcgctaaaag    540
gaggagcgta agttggccag taataaacgt gatatgttgc agtacgaggt                590
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<210> 8603

<211> 287

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220094e04a1

<400> 8603

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aaacaccggg gaatttgtca tcaatactcc atgtgaatcg ggtcagaagt attggattgg    120
tggtgcagca aatcatgcaa cgcacactat agtcttttca cagctctata taaatggaag    180
caatcaaggg gtgcatgcat ttattgccc aatcagggat tcagatggaa acatatgtcc    240
aaacatccga atagctgatt gtggtcacia aaattgttta aatggag                287
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<210> 8604

<211> 603

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220094e04d1

<400> 8604

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ccacacccgg tttgggttac gcatacctaa gactgctaac taatgtaagt gtacactgga 120
actaagcctc ctcaacaact agcatcttcc acatattaaa aacacaaaact catgtaagat 180
gcaaattgtat caactgttta acctgggtcaa ctgtcgggtt gtaaacaact ataaattaca 240
tgttcggctg aaacataata acaataacaa catcctgttg tggattcctt cacaatcgtc 300
gtggtaggtt aaccaatgac tacagctgac aaaaaacaac acaaactcat aggggtatgtg 360
gcactaacac tggctatcgt gagcccaaaa cagcacatcg tagcacaggc tgaaacacca 420
tacactgaac tgacgcatgc aactgggcta aaacagcaac cccaacaggc tacacaggct 480
ccctgtgtat agtgtagtgt ccagggtgta catagcgcgt aactaggcgg tatagctgcc 540
aacacagcta gcgaggcaac actggtactt ataggggtgc atgtgactag agacgctaga 600
gct 603

<210> 8605

<211> 529

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220094e06a1

<400> 8605

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ttctctccc actctgactc agttcccatt taaaagcaaa cctctcaaa tcaaagactc 120
tctctaacc ttgtccttta tcattatcat cacattcata actctttcac aatctggata 180
tataattatg caaccctgta gcagagaaat gcaaggcctc aactccctct taaattcttc 240
atcccaaadc tcccttcaag accttcacaa tcacaccact aaccagatcc aaaattcaca 300
catgaaccac caacaccacc accaacaaca acaacaacac caacaacaac aacaccaact 360
tgctcacttt gattcaactt ctcacgacga ctgtctcgaa caaatgctct cttgctgctc 420
ttggacagat ctcaaccata acaagccatt attatgggac cctaacaccc ncaacgacat 480
caagcccncc gacgaaacga cgccgtncan caacaacgac gacgctact 529

<210> 8606
 <211> 200
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220094e06d1

<400> 8606

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 ggggggggga ggggtgtctg gggggcgccg ggaggggggg ggggtctggc ggggggggca 120
 agacgatctg ggaaacggct aggaaagcca ggacgccgat aaaagatgta aagagtaata 180
 gggcctgttg ggcgccatta 200

<210> 8607
 <211> 505
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220094e07a1

<400> 8607

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 gaaggatgtc tctctctctg ctttcacttc tcagcgatgc ttcaaagcgc ttccaaggag 120
 aataatccgt tgtgctgtgg cggcgccctca ggcgcaacct tccaccactg gatcagtgag 180
 gactgcaatg accatgactg agaagatact ggccagagct tctgagaagg tacagctgac 240
 ccctggcgat aatgtttggg tcaatgttga tattttgatg acacatgatg tgtgtggccc 300
 tggttctatt gggattttca agagggagtt tgggtgacgat gccaaggttt gggaccgtga 360
 aaagcttgta ataatacccg accattatat attcacaagt gatgaacgtg ccaatcgcaa 420
 tgtagacata ttaagagatt tctgccatga gcagaatac aagtactttt atgatattaa 480
 ggatctcagt aattttaagg aaatc 505

<210> 8608
 <211> 452
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220094e07d1

<400> 8608

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 aaaatgcgcg taaggcaaga agacgtattc aaaaggggtg tacataaaaa agattaaaac 180
 aggccgtcct ggaaagactg agtacgggga atggagcctg acacaagata taatgaatta 240
 ataatcgcg taatattaag ccagcatgc gaataatagg tgatgctaac aatgtgtgac 300
 cagtacgaat agaattccgt aagctacagc tactactgcg agagcccaaa cttaagacag 360
 gcaatgggtt ggcgcgttaa ggtcctttcc caacggttgc ggtcgacggg caatatagat 420
 tggaccggtg ggtagctcgc tcgaacgagt gg 452

<210> 8609

<211> 420

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220094e08a1

<400> 8609

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 tggccaccat ccctatcacc ggcactggca tcaaccacgc tagaagcctt gggcctgctg 120
 tcatattcaa caacgagaag gcttgggatg accagtggat cttctgggtt ggacccttca 180
 tcggtgctgc tcttgctgca ttctaccacc agtcctgtgtt gagggcccaa gcagcaaagg 240
 ctctagggtc tttcaggagc tcctcaaacc tgtaattctg gccaagctat ttgagctacg 300
 agagacatgc ttcatttaat tgtgttctta attaatgtgc ttatacatgg tggattggaa 360
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<210> 8610

<211> 508

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220094e08d1

<400> 8610

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gagtagcctt atcctaatac tactgcttat tgctgttggg agcccatct cgtgttgcca 120
 cctgtatgtt ccaactccct cacgctatct ttcaggtoct ggctctaaca aaaacctgtt 180
 tctttttaa ac aaacttgta cccagtcctt ttcacatatt catacatttt gggccgagtt 240
 ccctcttaaa ctctttcaag attgtcagcc cacgtggcgt ccacatgatc ccggtcagtt 300
 cgggccctga cccaactttc tccacgattg ctacggtcac tgccatgtct gccattacaa 360
 ttggctcaac aatcgctgc cccatagtag gccattacc attcactgtc tccatcgcaa 420
 cgttatcttc gggtagtttg atactcaacg cgggccctgt tacaacgggt cgcacgctca 480
 atgtagttag ccacacgccc ttagctgt 508

<210> 8611
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220094e10a1
 <400> 8611

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 agcggagggg gggaggcgga aaggatttgc ggatacaggt gatactggca cacaacagga 120
 taacattaag ggtaccgtac agttatcgga caaacctat ggccaggtac agtggtattg 180
 tgctcggaagg taaagcacag cagcagattt aacttactta tacaaggaag gacccaaagg 240
 ctacgcggac acggccaacg gcgcgagggc cactaatagt ggtgtgttgg cgattcgaaa 300
 ctggggcagt aataaggagt ggtgcgagtg ttcattgtga accaccaacg cgaaacgggt 360
 gtgataatat agactctatc aggtagtaag cgggtgcgct tgcagcgtgg aatttacaca 420
 caagtgtgta tacaataagt gaagcactag aactggc 457

<210> 8612
 <211> 528
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220094e10d1
 <400> 8612

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 gagtagcaac tgtcagatca tgacgtgtca agtcgggttt atatgcaggc tattgtaaaa 180
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 tcagcccggg ggcaaacatc tgaggtagag ccgcaacttt ctcaaccgga tgataatgtg 300
 gctggggaga gggaaacacc cgcggagccg actgctgcag gtgtcactga ctagcccacc 360
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 aagcctgccg ccgctgctgc aggcttacgg ggcctatacc aagtgtccca ggaacgcgtc 480
 gggctagcaa cgcctanaga aaaccacaag cgtacgcata ccacttgt 528

<210> 8613
 <211> 518
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094e11a1
 <400> 8613

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 aaggataagg aataatcccc tttaaattga taggggtagt taaccaactt tgagggaatt 180
 gccgatttaa cgccgtaaca gttacggcca gtaatgccag gttaacagtt aaatgtgcca 240
 cgtgtaaagt aaaaaaggca acgggcaact ctaggatagt tatttacgga ggctagaaaa 300
 acgatgccct aggcaatatg gcgtattgat tccccaggt ggctgaatgc acaatcacta 360
 gcgggtgcaa acttccgcaa gttaacttcg ccattacagc acccagctga aatttgatta 420
 gccaaaataa aaaatgggcc ttcgtaaaaa aatagcccc tcaaaaatgc cgctttactt 480
 ggggggagcc gcttccattt gaagaccaag ggggcatg 518

<210> 8614
 <211> 655
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094e11d1

<400> 8614

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 gcatggcggtt atgtgaatga ggggtgtcatg ttcgtgtggg gatgagtgga agcgggagga 120
 gagcgagagc cctcgcacat tgcgtcacac tgtatgtcga cctccttcat tggggggcgg 180
 ggggggacta gaagttgagt cgacaacaag agcagaggac atagcgcaag taaaaggcac 240
 cgataccctg gttgcaaata tactaacgct gctaggctaa aattaacggc agaggattgg 300
 gtaaatgggt aggtcaatca atcaatgctc aggccaagca gcatagcaaa aagtagggaa 360
 gaaaaagccc gcaaaggtag aatgtccagc tataggctgc cttacctgtt tagaaaacgg 420
 agcttattca tcgagcgact acgaagctcg tactgggtgg gtttcgagca ctaagttaaa 480
 ggtggcaact gcaacctttc tacatacgta acgaggttat acgcctacga agaggttggt 540
 acaaagagtg agaaaggtag ttgtaccggg gctgtcgcaa gctgcggcac atggctatat 600
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<210> 8615

<211> 489

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220094e12a1

<400> 8615

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 aactgaaaac gggaggggaag aagtgtggg agaatagaag gaggaagta gtaaggaaga 180
 agctagaata gaaataggcc ttgtaataag gctaggttta cttggcacag taaattaagc 240
 ccgttgactt gtactagatt tgggactaaa ttgcaaaacc ttatgtttgg taagtatacc 300
 tagggtttgt attggcccca aaatttaagg ttgttttaag ggccccagcc cctgcttagg 360
 cgatggtttg gtaagcaaac taaaaggtag gcttaacaac attaagtga tgtgccacc 420
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 gtaatcccg 489

<210> 8616

002260: ETTES60

<211> 283
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094e12d1

<400> 8616

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tgcacttgaa attttggccc ctaaacagca cggcgagtaa ggagactagt ggaaaatgca 180
taacaggcag gaaagattga gagtagaatg gataaggccg ggtataacct catttaggtg 240
ttgggtatag taccatgcac tcaacagtga aataactcag tgc 283

<210> 8617
<211> 415
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094f01a1

<400> 8617

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gtattttaatg aactacccga ggctctaagc ttgcttgctc tagcaaggac tgctgatggc 120
actcgggcac gatattctag atctatacag gaccttggtt actaaggctc catcgcttaa 180
ggattcggtc ggtgagctcg aaaaagtggg tgcactcaaa gatgtgagaa catgaccttt 240
gaaggggttat atggttctta acttatatgc gcacgtgcct gcgctaaatt gctaattgctc 300
ttggggagta cggttaagtg gtattacatt actgtatggc tagcattatt cttgggggaag 360
cagattccct cgtatgtatg taccaagtat ctatcactct gcttgcacgt tatgc 415

<210> 8618
<211> 505
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094f01d1

<400> 8618

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aaagtgggct gacgatgtga ctaggggata gtaggctaca gaaaaācgat aaagattccg 120
gagcccaggc tagcaaaggt aagttggggg tggatataga gagacggaag gagtatggaa 180
ggagaaccac agtagcggtta tgagcaaaaa tataaactaa aaagcaagca gaaagagcag 240
aagcatgagg aggcgtagat cggaacgggc ggtagtgttt gttggagcct aggcctttgt 300
atgaactggt taagccgcgg aagccttaag ggtacagttg ttaagccagg cttacctatt 360
atgcgtggcg ataacgactg agtaaaccgt agtggtgcta tagatgtagt actatatagt 420
gctataaatc tggtttggt aaccggccat tgagaaaata ttggtgcaac aagagttaac 480
attggcgaac ggccttaaga acgtg 505

<210> 8619
<211> 579
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220094f02a1
<400> 8619

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attcagcccc aagctcaatg gccggaacct ccgcgtggcg gtgggtgggag gcggtccggc 180
tggcggggcc gccgcggaga cgctggcgaa gggcggcggtg gagacgttcc tgatcgagcg 240
aaagatggac aactgcaagc cgtgcgggtg cgccatcccg ctgtgcatgg cgggggagtt 300
cgacctgccg ctggacatca tcgaccggcg cgtgacgaag atgaagatga tatcgccgtc 360
gaacgtggcg gtggacatcg ggaggacgct gaagccgcac gagtacatcg gcatggtgcg 420
gcgccagggt ctggacgctt acctcagga ccgcgccaag gagtacgggt cgaacgtcat 480
caatggcttg gtcttgaaaa tggatattcc tatagataag aactccccct acgttctgca 540
ttactctagc tacgatggca aaaccaatgg ggcttgtga 579

<210> 8620
<211> 616
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220094f03a1

0953113-032200

<400> 8620

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 ttttagactt cgtgtagctg aaggagaatt tactgattct cagattattg tgatgctggg 180
 tgagaatggg acaggaaaga cgacatttat tgaatgctg gctggtttat tgaaacctga 240
 caccatagaa ggtggatctg aggtggagat gcctgaattt aatgtttcat acaagcctca 300
 gaagattagc ccgaagttcc aatcaactgt taggcacttg ctacatcaaa aaatacgtga 360
 tgcataact catccccagt ttgtgtcaga tgtgatgaag ccacttctta ttgaacagtt 420
 aatggaccaaa gaagttgtga atctttctgg tggagagttg cagagagttg ctctgtgtct 480
 ctgtcttgga aagcctgcag acatctatct gatagatgag ccaagtgcgt atctagattc 540
 tgaacagcga attattgctg gcaaagtcta taaaagttta ttcttattca agaaaacggc 600
 tttggcgtga catgat 616

<210> 8621

<211> 576

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220094f03d1

<400> 8621

cgtcgatcta tggctaggaa tgtaccagag taccgtacac cacacgtggg ccaactagcc 60
 taatggtaca taagcggcga aactgcctt gtatgtttaa ctatacacag cgatacatgt 120
 gggcggtag ctgtatagat aaatacccg tttacacag ttgctcgcca cggttgagaa 180
 agtaagagcg aaataaagat agtttattag ggcaccaagg gcacaggcag gcggcgaggt 240
 ggttgtaacc ccaaaaccga cgcggtttac tacggttacc gttggttagt gggggccgta 300
 tacggcccca accaagcagc atgatacaag tattaaaacc cgagttaagt atgcaaccct 360
 agcggtgagg gcgactcctt aatatgcaca gaatgcgggt gacgctattg tacggctagt 420
 gcggtaacat gccccggaat acgacaggtg ggtaacaggt tgaaccgaag gaagaatagc 480
 tgggggcaca cttaagtagc tacggagcgc ggatacgata gcgaggacta ctaagacgcg 540
 atagctcaca aagaggcaaa tataggggag agagac 576

<210> 8622
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220094f04a1

<400> 8622

gctattttctt acctcttggc atggccattc aaatgtcttc ttttgtcttt gtttctctta 60
 caattttatt ttgcttctct tccttggaga agagttttgc ctttcaaaca acaaaggagg 120
 acacagaaag caacaatctt catcaatata ctcatcttgc tcacctcagc tcactccttc 180
 cttcatcttc ctgcagctct tctgccaaag gtcccaaaag aaaagcatca ttagaagtgg 240
 tacacaaaca tgggccatgc tcccaactga ataatcatga tggcaaagca aagtctacaa 300
 caccacacag tgagattctg aaccaagaca aagaaagggg taagtacatt aactcaagga 360
 tctcaaagaa cttgggccaa gatagtagtg tgagtgaatt ggactcagtt aactaccag 420
 ccaagtctgg tagccttatt ggggtctggga attactttgt ggctgttggg cttggaacac 480
 ccaagaggga cttgtcactc atctttgaca cttgcagtga tctcacttgg actc 534

<210> 8623
 <211> 515
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220094f04d1

<400> 8623

cgtegatcta tcgctaggaa tgtgccaggt gccgtacacc gtgatgtgac acacaactcg 60
 tggcaagaaa tctgtgggtg gcaaaaattg caggggtggg tgggtgggtg gtgtgggtcg 120
 ggtcagtggt cagtgtgcaa aagcacacac gctagggtaa gttatagtcc gtaccttccg 180
 aggtaccgtc caaatcttgc tgcccactgt gatgcttgtc aatatcctag gtacttgcag 240
 ccctacagct taacgcagaa catgcggccg ccacgcagc agctgggtaa tattgggtgg 300
 acgcaaattg ccctgccaaa ctatcgcttg tcgctcaggg ggcgacagtg tcacttgatg 360
 cgcaggcagc aacggaccat gcccatagat tcttaatgag ggtagttgca ctactgtagg 420
 actccaaacc aacagctgct aaataatgng ctttcgcctt atgagattag gccaaaccac 480

aggcggcaat gggctggcca gtctagtaca aactg

515

<210> 8624
 <211> 508
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094f05a1
 <400> 8624

gggccactac tgatgatcta cagcagtagt tcgatgcaca tgcacgcgtc tagattcagt 60
 cagggttaaat tcttggttga tcttttcatt tttagactag actcctttat gatgacaatt 120
 taaattgtac agattaatcg atgaaatggt gctggggttt tggtatcact tccatttcct 180
 aacttcctt tagatttttt atacggaatt tttgaatttc ctttcttttt ctatatcagg 240
 gctaaaatca ccttttgaga ccccggtcc cccacaaatg gtacttctgt attattaatc 300
 tggacccaaa tattttcctt acttcacttt cttgtactg attattttct tcttcgatgt 360
 ggatctcttg taattttctt aatttaacat ttttttttga atccatattc aagtgccttt 420
 atgatttaca gtcaaaaaca gatctttcat gttactgctg aagatttcct ttcttgga 480
 tggagtaagg ttaaaataaa aacatctc 508

<210> 8625
 <211> 571
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094f05d1
 <400> 8625

ccggccaatt tgccgtgcta catgtgtagg agtgccgcct gcttgggggg gggggggggc 60
 ccgcaaaggc gcaagatgaa ggttgcggaac aagtatatat aatcatgtgc atatgattac 120
 cggattcgat actagtaaaa tatacaacaa aagaaacaag cgcacccgac gaaaatttgg 180
 gtgtatacca acgttagtaa gaagtgttaa ttatgcttgg ttatacttac taaatagtta 240
 gggctggagt ggtttgggaa tttttttatc cccaacgtat atacaagaga aaaaatctgt 300
 agcagaaata gtaaaacaaa tcaaaacaaa agagaacaag gtaaaaatta acacacatat 360
 cttaaattag ctagcacttg taagctagta taaaattagg gtaaatagga taggctacaa 420

002200" EFFE560

actaaaccga ggtaggctgg agcgggtcta agtagcgta cagcaaaaag aagatacaca 480
aaggaaggca gtgagactgc ggccttaggt gaaggctctgc gagtaacaag tatacaagat 540
gtgccgcagg gaagtggtaa gtcaaaatac a 571

<210> 8626
<211> 382
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094f06a1

<400> 8626

gctctagatc gcgagcggcc gtcctttttt tttttttttt acacacattt ataattgggt 60
cagattttca taaaaagtca aattggtctt caatattaag tctcctaagt cctaattaat 120
gataacatta tagtaataag taatgcctaa caactaacat taacacctac cacaaccaac 180
gacggttaaa attaaaagga aaaaaaatgt acacactaac tccgggcccc actgaaacag 240
gtccatttgg tccaacctct tctctaacta tgactctttt ttttttctaa cctgaaaaaa 300
aaattcaaaa accgggaagc gacggtggct aaacggtgtc aggctcaggc acgtactcct 360
ttttccgccg catttcgagg ac 382

<210> 8627
<211> 517
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220094f07a1

<400> 8627

atcttgacca agattgacag gcgatctggt aaggagcttg agaaggagcc caaatttttg 60
aagaatggtg atgctggtat ggttaagatg gttccaacca agcccatggt gggtgaaact 120
ttctctgagt atcctccctt tggctgtttt gctgtgaggg acatgctca gaccgtagct 180
gttgagtgca tcaagagtgt tgagaagaaa gacccaccg gagccaaggc cacaaggct 240
gccgccaaga agaagtgatt gcattttggc aattttgcta gcacatgtga tcatcaacgt 300
gttttcaaaa aaacttgttc ctttacagta gtttatcttt gcagagtctt aggtgtttgt 360

tttaccagtt atatTTTTgaa gtgtccgcgcg atttcatgta gccgtagcct tcaaaaactgg 420
 gttcttgatc ggcggtaaca ttttcgttgc tgnntgtttt tgatgagtac tgatttttgg 480
 tttgatggta aaagtctgag attttcaaatt tcacaag 517

<210> 8628
 <211> 351
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220094f07d1
 <400> 8628

cgattgcgtg gtacatgtgt aggagtacca cctgcacctg cttggggggg ggggggggaa 60
 taaatggttg gagaaaggaa agctaaaggg aacatagttt gttgtactac taaaccaaag 120
 ccatgaaaat ttgagcctgc tggcgcaagg gcaaaagtgt acatggggat tagtaaaata 180
 aaaaatacga tgtagtaaaa ataaatacta atcaaaagcg gattcttcag taacaattta 240
 cggggcgaac tgatgctgat agcaaagtcc tccatatggg aaaagagaat gccgaaaata 300
 gatattgaac atgtgctaaa cagaaatgat gcgaaaacca ataccggggg g 351

<210> 8629
 <211> 604
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220094f08a1
 <400> 8629

cagattagta ccacaaaaat ggagaaatag aataactgaa tatcgtatag ctcaaaataa 60
 agatttaacc aaatgcaatt catatgaaaa aagccaatta attctttaca aagaacaaca 120
 agtaaacgca ttaaaaaaaaa aaattagaaa acaatataga tacgatcttt taccctataa 180
 ttttatcaat tatgcagata agaaagactc atatatttat ggatatagat ccctatttca 240
 agtaaaaaaa aaccaagtga tttcttctaa ttacaacacg tataaaaaag aattattgga 300
 tatcatagat aatctctnta tcaagaatta tatatcgga gatgcgattc tagatatgga 360
 aaacaatatg tatagaaagt attttgattg gatgggaatc aatagagaaa tactaaatcg 420
 ttccatatcg aatccagaaa tttggttctt ttcaaaattt gtgatatttt atgacgcata 480

taggggtaac tcgcagggtta taccaatcaa attactttnt ttttcttcta atgtaaataca 540
 aaatgtagtg aaaataaaag aacatactag acngaaaana atgatctctt gaatgagtag 600
 agac 604

<210> 8630
 <211> 494
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094f08d1

<400> 8630

ttgcgtacta ctgttgaggt gctgcctact tggggggggg ggggggcggg gggggggggg 60
 gggggagatt tggatgaggt ggggtatgcg tgccgctgat agaagtcggg gtaagagtgg 120
 ggggtgtccag gcacagacag caggtaacag ggtcggcagt accccaggtg ctggggcctt 180
 tagggtcacc gttgaatggt gaggtaacac aggtaagggc gagtgggtga acaagccgtg 240
 gggtaggggt atgaataggg gcagggatag gagaacaatg ggaatacgat gccaggccga 300
 gaattgccca cggattttga gagctctaag aagagagtgt atagtggcac aacaatgtaa 360
 acggttgcca ggtatgagcc aatcagggac taggggtgtga ggcaggttta gttaagtaaa 420
 agctgggtga gattgagggg tggttagagt gacaagtcta gtggttcagg gaggaggtgg 480
 caggaacaca ggag 494

<210> 8631
 <211> 541
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094f09a1

<400> 8631

ggttccgtga tgactcactc accttcaagg ttgctgagac ttcacaggaa actgctgagg 60
 aagctcagac atatgctcga taaaataacc caaccatgag caaaactcaa ggcaatttta 120
 gacttcgtgt agctgaagga gaatttactg attctcagat tattgtgatg ctgggtgaga 180
 atgggacagg aaagacgaca tttattcgaa tgctggctgg tttattgaaa cctgacacca 240
 tagaaggtgg atctgaggtg gagatgcctg aatttaatgt ttcatacaag cctcagaaga 300

ttagcccgaa gttccaatca actggttaggc acttgctaca tcaaaaaata cgtgatgcat 360
 atactcatcc ccagtttgtg tcagatgtga tgaagccact tcttattgaa cagttaatgg 420
 accaagaagt tgtgaatctt tctgggtggag agttgcagag agttgctctg tgtctctgtc 480
 tcggaaagcc tgcagacatc tatctgatag atgagccaag tgcgtatcta gattctgaac 540
 a 541

<210> 8632
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094f09d1
 <400> 8632

agagaattta ccgctgtaca tgtgtaggag tgccgcctgc ttgggggggg gggggggggg 60
 gggggactga cgaaaggcaa tgtagagagg caggatagga tggtagctg aaagagaaag 120
 aggttagaaa ccaattatat cgagagcgag cacgatgagc cggcctatgg catataataa 180
 aattgaacta aacagtcac caaagcatag aagataggat aaacagagat gatgaggggg 240
 gggctggagg ggtaagacct cagaagaaag gaaatgtgaa aagccggcga acagaaatca 300
 tatcaataga aattataagg agggttgcat ataaccgtcg gcatgaccgc aagttaaaca 360
 aatcacaaca aagggttagag ctagctagcg gtagagtaac cccgaccagc accgagctga 420
 ttattattaa tatt 434

<210> 8633
 <211> 517
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094f11a1
 <400> 8633

cgtcgatctt tggctagcta atgtgccaga tgccgtacac ctggtaggca ccgcggttag 60
 ggctgctgag ggtgggacct ggcagtgagc gcccggtggc taagcaacaa aggctgtaac 120
 taaggagaga gatatgaagc cattccactc acgtacacgg cccacacttt tggatatcat 180
 ggggattgtg tccgtgcccg tggtagagat ggccaaacta ccatacgcg cacctaattgc 240

ttcaacgggt aaacatgggt aagcaaaaaa ggacaaacga tgcgcatagc atatgtggag 300
tagcgcttga gctgccaatg ccaaagcgggt gtaaccggta aaagtgcggc ccgtaggcgg 360
tataatagtg gcagaaaccg caaatgtatt aaccgttgct gcgctggcca aggctgagcc 420
gactgagcct gcaacaaggc ccatggcaca gcctaaggtc agtaggacaa tagcgggtgat 480
aagagccaca ctacaagagg tcttcactac ggttggg 517

<210> 8634
<211> 533
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220094f11d1

<400> 8634

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tgatgatgta tatgtatgct acagtgtgag ttagcctgat taggcggact agtaaccttt 120
cttacagtgg gcatacgtcg cctaagttaa ttcgtcaccg ccagggcata gctgttcagc 180
cgatggggct gacactgctg cggttaacgc cgctagttag gccagggag cacctttggc 240
aaggcacaca gccaccagtg catgattggc caaaccgcg agtaaacctg cggcataagc 300
gcaatattag gaggcttttg ctggggccggc ctaagcattt aatgtactac atgctgaggc 360
ataatggaag ccggtataaa tggcagccaa tgcggaatca agccncggcc gctaactaaa 420
actggccact aaagcttaga ggccacgcg tgtggctacg tgctaaactg ccgctgctgc 480
gttgcaaacy gttgtgggat tactagaggc tanagaggct cccgaataaa aac 533

<210> 8635
<211> 406
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094f12a1

<400> 8635

agtagactat agcgtggatg gtgccagatg ctgtgcgca ctgtgatgtg acaggcacgg 60
ttgggtatgt aaggtggtaa accacactgt aaagtgtatg ccagaacagt aacaacacga 120

gcatttgccg tcttactggg tgcacaaagt agcatcgagt atgtaatagc taaggaacat 180
 tgtaagttaa gaggtacatg gtaatacggg aaattgtgtg aaccattatg ttaaagtgtg 240
 agggagcctt aaaaccgctg ctgcagaatg tgaagcccat ggaataagag tagtcttaag 300
 ttgggggaca agctcaaaca gcaacttgct acaatgcaag gattgaatat aatacctgat 360
 aaatccctgg acagcatcct ctgactaaag gatagaagca gcagcc 406

<210> 8636
 <211> 460
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094f12d1

<400> 8636

ttgacgtgat atctcgttgt agtgccgcct gcttgggggg gggggggggg tgggggttaa 60
 acggtagagg gttggctgtt gggcgggggg gaattgaaa gtttaggata ggataagtaa 120
 tagggcagaa actaaaactt ataacttttg ttgtttgtgc agggccgtgg ttccggtgga 180
 atcaacgttg caaaataaac ccggggcccg ggcgggtgtc ttaatcgaa ggaaggccac 240
 gggcagcagg cgtcggcagt gtgttgtaaa gtaattatta ttatctgtat aggagttcaa 300
 tgagcttgtc ttaatctgaa tggccggaat aaaagtcac tagtccacta actttccgtc 360
 caattcggtt ttcgtatcgt atgttttcca cagtttcctc ctcacccctc tgggtgctctt 420
 ggcacctata gctgtattat attatagctc cgggtaggtc 460

<210> 8637
 <211> 583
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220094g01a1

<400> 8637

gtgaaatcgg gactgggggt ttgctgtccg ttggagggtgc tattttcatc aatgtgtttc 60
 tcagtcagag tactcgtccc ggaaagtttc catctatact tttccaatt gaaattaaaa 120
 atatccaacg cggcaaacac ggcagtgaca ctggagtcta cgatactgaa ggaaggtttg 180
 taccttcaaa atttgaagaa atttttaaca agcatgcaca tacacatcca aatgctttga 240

catatgatga gttaacggag atgataaagg caaatagaga gcctaaagat ttctcaggaa 300
 ggattggttag tgtggttgaa tggaaaattc ttacaaaact tgctaaagat aagagtggat 360
 tactgcagaa agaaacaatc cgaggtgttt acgatggaag tttatttgaa caactgaaaa 420
 aacaacactc ttcaggcaaa gagaagtagt aatatttttc agacacgtat gtgaaaagaa 480
 gaagttactt gtcgatctca gcanaattgg ttatttctat gaatttatat gctagtcagt 540
 tagtcacaat atttcacagt gtctgtctta tttttatgtt cat 583

<210> 8638
 <211> 397
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094g01d1

<400> 8638
 gcaacaattt ccccatcggt gtactaccac ctgcttgggc ggggggggggt gggggggcgg 60
 gtgggggtgg gggggggggg tggggaggcg gtgggggcgc ccaggcccg gggagtgggt 120
 gaggtgcgcg tggggcaggg aggggtgttc aagagggtgg gacataggag agattaaaac 180
 atccccctctt ggaagacaaa ataccctgaa tggagcctga cacaagatat agtgaattaa 240
 tatcacaata atattaagct ctagcatgcc cctaataagg gatgctaaca atctccaaac 300
 agtacgaata taattccgta agctacagct actactgcca gaccccaact taaaaaaaaac 360
 acattgggtg cccctattaa gtccattccc aagcgg 397

<210> 8639
 <211> 316
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094g02a1

<400> 8639
 gcgaactcca agatcaatgg cttttctctt ctgcttaatg atcaatcact atacatgcgg 60
 ggcggaata aagatactca tcctctctgg tctacacatt aaacatacgc taaaaaagag 120
 ctataaaatt aactaccta acctcatgct gtggcgccca cctcagcgcc aacactttca 180
 ccactggatc agtgacgact gcaatgacca tgactgagaa gatactggac agagcttatg 240

agaaggtaca gctgaccctt gccgataatg tcagggccaa tgttgaaatt ttgatgacac 300
atcatgtgtg cgcccc 316

<210> 8640
<211> 551
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094g03a1

<400> 8640

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agaagcacga aaaagggaaa gagattacca cctgggtccaa aaggggtgcc aatTTTggga 120
aaccttcaca agtgggggtc aaatcctcat cgtgatctgc atgaactagc ccagaaatat 180
ggacctgtca tgtacttgcg cttaggattt gtgccagcca taattgtttc ttcaccccaa 240
gcagctgaac tgttctcaa gacctatgat cttgtctttg ctggtagacc acctcatgaa 300
gctgcaaagt atatggcttg ggagcagaag aacttggctt ttggtgaata tggttcttac 360
tgggcgcaacg tgcgcaagat gtgcacattg gagttgctaa gccaaaccaa aattaactcc 420
ttcagaccca tgagggaaga ggaacttgac ctattgatca agaataaag aggggcatcc 480
aatgatggag ctgttgctga tctcagtgcc aaggTTTgca cactcagtgc agacatgtct 540
tgtagaatga t 551

<210> 8641
<211> 594
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094g03d1

<400> 8641

gcgtcggatc gtatcgcgta gcgcacgtg acccaagtga ctcgtgacac tagtggctgt 60
agtgaaggt gcaccttggg tgggggttag ggatatgtat gtatctatca ctggtaaaat 120
taaaattaaa tgtgcggtga attgttaaatt ggggagctta ggtagcatgt agaatagtag 180
acaaaaacaa caatgatgta tcaattctca ttattattca taagaaaacc ataataatcg 240
tacgcgggaa aactagcaaa agctgcttat tgtttattct tccaccgctt gtttatactc 300

ctcttccgca ttctattcgc cgccgcccta gcaacagcca tgtgtataact attcacggct 360
 gtatggccct gtgcggtaaa cgctgtact ttccgcagcg gcgctggctg tggtagcggt 420
 ggcccaagca gcaaaggcgc aagtcacaac ccaaagttgt cggcggggta tggcgtaaac 480
 tagggcatgt gaggtggctt cgggagcaac caggtgctaa gggcaaatac cgccagtgga 540
 acggtaaaag agcttccccg gtagtacgca ccacaagggg ccggtcacia ctca 594

<210> 8642
 <211> 509
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220094g04a1

<400> 8642

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 gacagggaca gtttacctct tctctcttct tggagccttc cttagtact cttactgggg 120
 aaggtacatg acctgtgcca tcttccaggt catatttggt attggtttgg tttcattatc 180
 attgtcatct cacatatccc tattgaagcc gagtggttgt ggcgataaag aattacaatg 240
 tggatcacac tcatcatccc aaacggcttt gttctatctt tccatatacc tagtagcttt 300
 gggaaatgga ggataccaac ctaacatagc cacatttggt agtgatcaat ttgatgaagg 360
 ggaccctaag gaacgacttt cgaaagtagc attttttagc tacttttatt tggctttgaa 420
 tcttggctca ctcttctcaa acaccatatt ggattatatt gaggataagg gacaatggac 480
 tntgggatct tgggcatcag ctggttctg 509

<210> 8643
 <211> 570
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220094g04d1

<400> 8643

gcgtcgatct gtcgctagcg aatgtaccag atgccgtaca ccgtgagtga cggctaaatg 60
 ggccgctacg ccggccgact actaggctgt aggcctggcg gcccgccgct ataactgcgg 120

ctaagagcga atagacatgt aacgtaagga aatggcgcggt cgctgctacg gatgccgtaa 180
aatttggttat tattccagca caaagcggcg ctacggcggt cttaacttaa gggctcggct 240
tgtgctacgg ataacgtgat ttgattggta gggccaagaa attttaaaaa gctgggcctt 300
ggcttgccga aagcgccgtg ctaagccttg ttgaaggcgg caccgaagta gggcgactgg 360
taagatatgg gcaatagagg aaggatgggt accccgcggg agcaacaacg gaggaaagcc 420
gttgccatga ttatggggtg ggcagagtca ggaagctgga gcgaatagcg agcgaacagg 480
ngaagggaac acaaaaacaa ggaagaaaat ggaaggaaat agtcgtaaga agagagagag 540
agagacatga acggcaataa ggctcactag 570

<210> 8644
<211> 406
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220094g05a1
<400> 8644

aattcggctc gagtttctct tcaaattcaa aactctgtct aagtcccaat ctttcttgggt 60
ttacgcccga aaggcttctt atgatatttt gtctcattaa catgctaaac tatgtggatc 120
gaggagctat agccagtaac ggtgtcaatg gaagtcttgc aacttgact gactctggaa 180
tttgtacagg tggcagtgga attcaggggg attttaactt gaacaatttt caagatggag 240
ttctgtcatc tgcatttatg gttggacttc taattgcttc cccaatattt gcttctctgg 300
ccaaaagtca caatccattc cggcttattg gtgttggtt gtctgggttg actttagcga 360
tagctggatg tggtagtttc gttcgatttt tggctctattg caatat 406

<210> 8645
<211> 473
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220094g05d1
<400> 8645

accgaagcaa gtttgccgc tgctatcatg tgtaggagta ccgccttctt gggggggggg 60
gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg ggaaccacca 120

ggcgtaggtt atggcccagt acttttatag cgctaggggg cagggatagg gttaatagcc 180
gagtaaatta ttccttatta ggggttaaag catgccgacc acgacgaaaa agctgacgag 240
ctgattcatg gggatttggg gaatatgaaa accggaagag atatggcaac tagaccgaga 300
ccttgaaaag gccaaaaaaaa ggaaatggca tgccagcgac ccgtatgccg ctttgaaact 360
aagcctcgaa cggggttggt gagaccgccc ctaaaggctc tataagtagc gggcctagag 420
atagtatggg gtaaaaacag gttgagcaat taggggatac cactaacaaa caa 473

<210> 8646
<211> 436
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094g06a1

<400> 8646
ctttgctagt tttgattaga tctacaacaa gaaattaaag aaatggcttt cagggcagcg 60
agaaatgtag gattgaggtt gggaggagga aggcgatcaa ttgctactgc cagcgctaaa 120
aagcatgatg attgggcgac tctgaaggca gagttagcac cgggtgtacat ggtgtgcgga 180
atggtggcaa tggctgtggc aattggatca cacactgcgt ttcaacaact ggcgcgttct 240
ccaactgttc atataaacia gaagagaaga gagagcatgc cagaggtctc tgatcctgat 300
cgcaccttca actccgccac caaattcadc gatggttcct tcttaaggaa actctctcac 360
attcaagaca acaacccac actccaagac ccttgccacc ctaatccttt caccactcct 420
cgaaccgctc acacct 436

<210> 8647
<211> 500
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220094g06d1

<400> 8647
ccgagggatt tgccgctcta catgtgtagc agtgccgcct gcttgggggg gggggggggg 60
ggctgtagcc aaggcttcgc cgcctgggag ggtacagcgg agggagagaa gagagacaga 120

gagagagaga tataaaactgc tagcacgaca acagtagcta cacagtgaag gaggcaacgc 180
 ctcttctcgc acgtgtactg agttgaacat gaagccctta agaaagaaag aaagagaaaa 240
 taggaaggcc tggagggata agaggggtgga ctagacaaag ccaaaaggac aaaaaagaga 300
 gaccgccaca aacggcgtag aggcacaaaag acgcaaaagc aaacaaccag taatcctgcc 360
 accccgcaat ctttatacgt ggtaaccgcg cactccggtc accacgccgc aaaccaggac 420
 ccgccaacc cgtcgccacg cgcaagnacc ggcgtggcaa gcgcacacac ggggtggaac 480
 aaccaattag tcagcaaggt 500

<210> 8648
 <211> 518
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220094g07a1

 <400> 8648

cacaacacaa caccttttcc ttttcccttc cgttgggtgcc attcgtgcag caccggatcc 60
 tctcatttct ccggcgataa ctctcccttt tccggcgaaat tcaccgcttc ctcgatatga 120
 atccccagta tgactatctg ttcaagctcc ttctgattgg agactctggg gttggtaaat 180
 catgccttct tctaagattt gctgatgatt catacattga gagctacata agcaccatcg 240
 gagttgattt taaaattcgc actggtgagc aggatgggaa gacaattaaa ctacagattt 300
 gggatactgc tggacaagaa cgatttagga caataactag tagctactat cgtggagcac 360
 atggaatcat tattgtttat gacgtgacag atgaagatag cttcaataat gtgaagcaat 420
 ggctcagtga aattgaccgc tatgccagtg ataatgttaa caaacttttg gttgcaaaca 480
 agagtgatct gacagcanat agagttgtct catatgac 518

<210> 8649
 <211> 580
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220094g07d1

 <400> 8649

ctacatgagc cgagacgtgg gacggggcac taggtgtgtg gctcggggaa agatcgatcc 60
 gggggtactc tgggagcagg gacaggtggg ggaggtgaga gcgtgagagc aagagagccc 120
 ctctgtcaan ccngtcatca ctgtatgacg tcctccttct ttggggggggg gggggggggg 180
 gggggggggg gggggggggg gggggggggg gggaccttag cccccccaaa agacagcact 240
 acaaagggaa aacggggagt aggaataacg ctgaactgta aggaggctgg gtaacgagag 300
 cccaaacaag cccagtaggg accctaaggt ttaaattata ccggccaagg atcgcaatag 360
 gcccttaatg agggccccaa agactggagc ttttgggtag ctaaaaccga acgcggcatt 420
 aactactatt attgccgggc caacagtagg aattatgggg ggcgttaata ccggctttgg 480
 gcagtgtat gcggccacct tggctaggcc ggctgcaaac cgcttggtt tggtagggtg 540
 ggcagcctat aaaaaagcct tggaaaactg ggggtaaagg 580

<210> 8650
 <211> 491
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220094g08a1
 <400> 8650

cccgaatcca agtgaaacga aaaacactca tcatcatgga ttcagttgca ttaaattggca 60
 aaagcaatga taagcctctt cacgttgcca tgctcccatg gctggccatg ggtcacatat 120
 accettactt cgaagtcgcc aagattcttg ctcaaagggt tcactttgtt accttcataa 180
 acagccccaa aaacattgac cgcattgcca aaaccccgaa acacttagaa ccattcatca 240
 aactcgtgaa gctacccttg ccaaaaatag agcatctacc agaaggcgca gagagcacia 300
 tggacattcc gtccaaaaaa aactgattcc tcaagaaagc ttacgagggc ctacaatacg 360
 ccagttccaa gttgctgaaa acgtcaaacc ctgactgggt ttctgatgac ttcgcagctg 420
 cttgggtcat accaatagcc aagagctaca acattccttg tgctcactac aacattaccc 480
 cagctttcaa c 491

<210> 8651
 <211> 583
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094g08d1

<400> 8651

ctacgtcgat cgtatcgcta gccaatgtac caggtgccgt acaccatcaa atcagttaat 60
 gtgggggggta gggctactag taaaagcacg ccgactaatc agccgactcc tactgccact 120
 gtgaccgggg gcaaccgcct gacgctactg cttctgatac ttcttcggct tcctccggga 180
 gagcttaggt gggtagttgt aattgtgctg actgtgcaca gccaacgctt cgggcctact 240
 ctatcctcgc aactaaaca atcgcatcag ccgcctgttc ccgtgtagtt gtctcaccgc 300
 cttattatcc gtacgtcggc caacaaattg cacaggccgg cccgcaactg caatcgccag 360
 ccggtatctc atttagataa aacggttggt ctgccggcgc cgccgcgggtg caccatcta 420
 gtactaaacg cctgttcgcc tgggctgaaa aaatgcaatt tgatggagct acgctattac 480
 atacacggac aacttaggtg tatccctggc aagcgcctgg tacacagcaa gcggaacaaa 540
 tgaaggcgcc acgtacatac gcatgtgcgc cgcactagcc gcc 583

<210> 8652

<211> 252

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220094g09a1

<400> 8652

tgcattgactt gcacagtggc ctttcttgaa gttgctcaga catacctgcc tccatggggc 60
 agggaccctg attcggtagc gagattacac tcgtcgatac atagccattg gttgtgtgga 120
 aaagggtcca tgtatgcttg ctatgccggg tggaagactc caacagcgat gcctttaaga 180
 agcctcttgc cagggaaccc acttacctat gggtccttga aaatggaatg accatgcaaa 240
 gttttggtag tc 252

<210> 8653

<211> 283

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220094g10a1

<400> 8653

cgtcgcacat ttccgctg ccatcacgtc taggactcgc accctcttgg gggggggcgg 60
 gggggggggg gggggggggg gggggggggg cggggggcgg ggggggggaa gcggaataag 120
 cgagtgtggc cattatgagc ccgaccatca cttgaaggaa ttaagcccca cagttagcag 180
 gtcctttacc acacttaata ggatgggcat aaaggtagct tgactagcaa ctttggaac 240
 tagtgcaaaa atagggggcc aaaaataagc acccccgcg tgg 283

<210> 8654
 <211> 210
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220094g11a1

<400> 8654

cgtcgatcta tcgctagcct acgtgtctag gagtcgtacc ctacatgggc atcgggcgtg 60
 cattgcagta agaagctacg caggaagagc tatccgcgct aggtcccaat gtcgcaggag 120
 gaaagaggat tgtaggatag aatatacatg ctgtagaacc aaatagcgat tactgaggcc 180
 catgcaggct aaccacagt gaaggaggta 210

<210> 8655
 <211> 543
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220094g11d1

<400> 8655

tcacgtcgat ctatcgctag ccatgtacca gagtaccgta caccgtgccg gtgtaaatcg 60
 gcgctggctg ctgctgctag acggcagtca aactagcata atagtaggcg ttactagttg 120
 gggtaaccca aggctactgt cgggtgggtat tcttttgtga atgaccgttg cggagtagcc 180
 aagcacagat gggctgatgc gagtaaagca gttgcatata tagcagcatg gtaacttact 240
 gaagaaatgg cacaaggtta ataggggtgg cctgcagcgg aggcactacc agcgtaacca 300
 gaagttgcgg agcagggata gcaaaccgcg cttgcagggg ttatacgcgc cagggacggt 360
 gtggctacgg acacgcggat aataagagca gcggttgga acgctgacaa ataggggcca 420
 ccagttgcaa tgcaaaaagc tgcgaaaact gggtaacgag cggtaggng atgccgggga 480

ggatgtggct ggtagaacac acgatgtgag ggtgtggata cgcactataa gggggtaaaa 540

ggt 543

<210> 8656
<211> 641
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220094g12a1

<400> 8656

actgtgtgat agacaatcta tcttcagggg tgtatgatac ataccttaca tggcacgatg 60

tgggtacaggt aacagaatat gtataaaata ctaggtggga atcaacaaaa aagctacgac 120

tccgaagana ttttcccggt catccactcg tatcgacggg ccgcccttc tattgcggtc 180

gtggggagac aggcccagca ggagagctga taaaactcta tcgaaccgct gatgtaaaca 240

tggaatacgc cacctagtcg cagcacgtat caactgcagt aaatgccgac tatagagatg 300

taaatatgag acaagataga ttagagggta taacggacat acagtagatg gtaagtttca 360

gaagacatgg aatacgccct tcaactgaaa aagcctgacc attgtgagac tgcctcacac 420

cctctgcata agaatgtgaa gcccatggat taagagtagg cattaagggg cagacaaaat 480

caaagatcga cttgcaacaa tgcaagaatt aaatattata aatgataaat ccgtgatcag 540

catatatgga gagtggatag aaccagcaga gtcatttacg gttgctatta ttcgagtttt 600

tgggacgggt aggaacacac ttgctactac tccctttaga g 641

<210> 8657
<211> 505
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220094h01a1

<400> 8657

gttctagatc gcgagcggcc gccctttttt tttttttttt acacacattt ataatttcat 60

caaattttca taaaaagtaa aattgttctt caatattaag tctcctaagt cctaattaat 120

aataacatta tagtaataag taatgtctaa caactaacat taacacctac cacaaccaac 180

gacgggttaaa attaaaagga aaaaaaatgt acacactaac tacggggcccc actgaaacag 240
gtccattttgg tccaacctct tctctaacta tgactctttt ttttttctaa cctgaaaaaa 300
aaattcaaaa accgggaagc gacgggtggcg aagcgggtgtc gggctcaggc acgtcctgct 360
tcttccgccg catctcgagg acctttcggg ggtggttgga gtgcaactcg ctggagaaaag 420
tacggctaca ggcgggtcta tattccggta ataaccgacc cgacttgtag cggacccccac 480
acgcgttgca cagagtctta gcccc 505

<210> 8658
<211> 490
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220094h01d1

<400> 8658
cttggcctttt tttgcatcgt tggagtaccg cctgcttggg gggggggggg gggctatatg 60
agggagaagg tagtaaagg gtagaaaaac gaaaaggcgg tggtaagagg aacgtgttga 120
acgttgaagg aagaagaata ggagacgaag aacgaagcgt gaatagtagt caacaatttc 180
attaataatg tagtaattat catgctatta ttttgtacaa taattaccaa aaggataagg 240
agaattttgt tcgtaatcat gataagggtg atattcaatg tattcgggtc cgctcaagat 300
gtgtatgtga tggtatttgg ggtaggggtc tacggaagga ggacggaagg gaattaaacg 360
gctgaggggg agacctccac caccaacggc tccatggcca agccggcgtg tcgggtcgtc 420
aacaggtgaa ggggtgtccaa gaggtgtggg ttggttttct aattcgcgtg cacaaacgca 480
aactcaaagt 490

<210> 8659
<211> 551
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220094h02a1

<400> 8659
cactctctct ctaaaaaaac tcaaaaataa aacgaagctc tcgaaactga gtccactcgt 60
cgcgacgttg cctttttgaa tcgtttcgaa tttcactttt tcgtttccct tcgttggttg 120

tatatatata accaatcacc ggtcaccgtt catcgatcat cgatcatcga tcgtcgatta 180
 ttattgttat tggtattatt ttggtggttg cgattctatt gtgttctgtg tgtgtggttt 240
 gtactgtacg acgtcgttgg agcgatttca tcgcgcgcgc gctgggtacgg agagggttgtt 300
 tgctacgttg cgggtgttgtt gaaggatggc ggtcggagtg gagttgccgg aggggagaag 360
 cggcggtggc ggcggaattg tgatggagtt tccggccggt gatgaggaat cgttctcgtc 420
 gccaacgagg ttgccgaaga ggctccggcg acggcttcgt gacgcggagt gcaagtctcc 480
 gagcactgtg gaagaaatcg aagcgaaact ccacaacgct gatcttcgca gacagaaata 540
 ctatgagaaa c 551

<210> 8660
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094h02d1
 <400> 8660

gcgacaactg gtacatcggt ggagtgccgc ctgcttgggg gggggggggg gtagtgttct 60
 gccgcacaga tacatggggt tatagcgagt attgctcaca tgctactagc gctttgaggt 120
 ggtgtactgg ttactaatat aacgtcgggt cgggtactac tacggtcggg ggccgcaagg 180
 ctactatcga tatatgtggg agagggcggg gtgtcactta gttggtgtag taagcgtgca 240
 catcattggg tgtgagcaca actttgggtg gcttgccacac ttggcacaag aactagttga 300
 ggacttgtgc ttgctgcaat atctcaggta atggggcggt taactttagt ctcggttagt 360
 gtagactcta gggtaatgtt acgggggctg ctggcatcta aggtagttac gtggctgaaa 420
 tctagtggcc ttggaagtaa cagctg 446

<210> 8661
 <211> 363
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220094h03a1
 <400> 8661

catacttgca ccccgatcac ttataactaa tcccaacata tgataggtgt agagggggta 60

tttcaatcta ttatccatat tgtgatgaag aaggaacatg aagaggggtct caagattgac 120
 gttgctacac tcacagttac agtagttgtt gtgatgctgc cattgctatg cacatgtggg 180
 gcaagcaacc tcgacccttt gattctaata ccaggtaacg gagggaaacca actagaagca 240
 aggttgacca atcagtacaa gccctctact ttcattctgcg aatcatggta ccctctcatc 300
 aagaaaaaga atggatgggt cagacttttg tttgattcca gtgtcatact tgctccttca 360
 ctc 363

<210> 8662
 <211> 557
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094h03d1

<400> 8662

gcgtcgatct gtcgctagga atgtaccaga gtgccgtcac aaaaccaaac tattagatgc 60
 acctaaaata ttgccaaata cacgggcacc atggctgctt acgcagccta caaaactgcc 120
 agcgccacgt tgggcgtgtg caatgagcgc caccgggtaa ctggtgagtc catttccaaa 180
 tgccgggcag tatcactcac acgtgaacca taaagggtact gtggtgccct agccaacca 240
 gcactaacca ccagctacac ctgagccgga cataaccgca gtggcagcca cagccaaact 300
 ggaagcaaat gcaaggggct agttgtagcc gcacctggac tttgccaagc agccaacagc 360
 tgcacgtagc ctgccacaac ctaaggcagc aacactggac taacgttgta gtggacacag 420
 aaggccgttt tggggcggaat taaggcgaac ggagcagaga gcgaggaag aaagtggcgt 480
 acggtgaacg gctgagaagg cagcaaatgt agtgggcgtt gaagcccgtg gcctggcgga 540
 agtaaagtaa ggggtggg 557

<210> 8663
 <211> 535
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094h04a1

<400> 8663

gccattgctt actcgttggc ctttcaacaa gttgattaga gaaaaagccc ttcaagtaac 60

aatgaagcat attcattacg aagatgagac tagtcgatac ataaccattg gttgtgtgga 120
 aaaggtttta tgtatgcttg cttgttgggt ggaagatcca aacggagatg ctttcaagaa 180
 gcatcttgca aggatcccag attacttatg ggtttctgaa gatggaatga ccatgcaaag 240
 ttttggtagt caagaatggg atgctggctt tgctgttcaa gcttttcttg ccactaacct 300
 aattgaagaa attggctcta cacttgcaaa aggacatgac ttcacatga agtctcaggt 360
 aaaagataat cctcttggag attttaaaag tatgtatcgt catatttcta aaggatcttg 420
 gacattctct gatcaagatc atggatggca agtttctgat tgactgcag aaagttaaa 480
 gtgttgtcta cttctatcaa tgttgccacc agagattgtg ggagaaaaga tggaa 535

<210> 8664
 <211> 560
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220094h04d1
 <400> 8664

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 actatacagt aaatgttggt agaggttatc tttaaagtgg ggaaagaaag ggggtgttaa 120
 gattaggtat ataataatag tcagggcgaa gattagcaac ggggggtac taagacacgg 180
 gtgaacggta ggggtggcgt gcagcgggtg tgatttgggg gcttatgtat gtcataatat 240
 tagaattaga aattatttta ggacacatcc tcatcggggc cgtgttaatc cgggaccaa 300
 tgggctctgt ccgggtggta ctttctcaaa tggtataaat tcggatcggc ccagggccga 360
 taataaaagt gtccaataaa tccggcgcgc ccggcttaac acacatatgt tgtggaatca 420
 tatggttccg cgggtgtaaa gaactaataa tccaaattgg cgatgttatc ataatactat 480
 ttcaacttgt aatttccggg ccgttggtta tcgggttagg caagttatan agaatagggt 540
 acttaactgg ggccagatac 560

<210> 8665
 <211> 555
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220094h05a1

<400> 8665

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 cttggctggg cacaagcaat gcccaagttc tctaattgatc tggatgaagta tgtgcaaact 120
 tttctggaga ggacttatga aagatgccga actgcataca tggaggctgt tcttgagaag 180
 cagagttata tgcttattgg gaggcattgat attgagaagt tgatgaggat tgaccctca 240
 agtgcattat taccgaatct gcttgggtcag ttaaattgtg aaagtaattc atctgatgct 300
 gaaacaattg aggtgaatt agaacttagt gaattactgc taagtttgcg tcctattaag 360
 caggaaaacc taatccatga tgacaacaaa cttattctgt tggcatccct tagtgactca 420
 ttagagtatg ttgcagactc tattgaaagg cttggacaga caactcaaag agcatcanat 480
 catgtcngg gaaaatacca tcacagtcac tcagacagtg cacctaccag gaagttagtt 540
 tcatttgctc aagat 555

<210> 8666

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220094h05d1

<400> 8666

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 ggactgaaa aggagtatac tagtatagga ggctaactgt tggagacgaa ataagcggg 120
 gcacaaaggt ggtgtacatg aaaggagaaa taaaatctag ggaggggaaa gtaggcctag 180
 ggtgcaaagg ttaaaaaaag aaagaaaatt gattgaagta gtgcgaggag cagaagcggg 240
 ttgtactact aggaggggga ggaggagagt gatacagcca tgcagactta cagtagttga 300
 cgaggataaa aagttactac gcatatagga taaaagtaat gggtggcggt tgccggcact 360
 agcaacaatg cgaataaata acgtttgaca ccaagtggac gggttttaag tgagacgggt 420
 cttgcgcaag ataacaaccg gtttaaccaga ctaagcctcc tattaacact aggcagccc 480
 gcaatgccgc gcgccaacag aagaagccaa catat 515

<210> 8667

<211> 507
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094h06a1

<400> 8667

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 caaccaagca gtgaagtctt tgcactcttt gatgacctct tcttactatc tgggggcgaa 120
 acagttatct tggagaagca aaatcgga ttgagttttt tgctgaagct ggtttccctt 180
 gtccacgtta aagaaattct tctgatcact tcctacgatg tatcaattct gatttcgaca 240
 ttgtaacagc tacactgaaa ggatctcaaa gaattcatga tgttccaaat tcagcagatc 300
 ctttcatgaa tttggctacc gcagagattt aagcaacact atttgagaaa tataagcggt 360
 caacatatgc ccgaagggca aaaaacagaa ttcaagaact gtgtaccgat gaaggggctt 420
 aacactcaac acaacatgga agtcaagctc gttgggtgga gcaactatta accgtgacaa 480
 agagatcatt tgtgaacatg ttagagag 507

<210> 8668
 <211> 347
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094h07a1

<400> 8668

tgaagtagtc gctatgattg agtatgcact cgctccctaa cctcggcatt gaattcggga 60
 tgtgattgag atcaaactct tttaaagtga gctcgtgacg gaaggactgt catctgggcc 120
 attcataaac caagcagtga agtctttgca ctctttgatg acctcttctt actatctggg 180
 ggcgaacagc ttatttttga gaagcaaaat cggcaattga gttttttgct gaagctgggt 240
 tcccttgctc acgtaaaaga aatccttctg atcacttcct acgatgtatc aattctgatt 300
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<210> 8669
 <211> 566
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220094h07d1

<400> 8669

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 aataattgct cctagtatta gtgctgccag gagtaatacg agtattttgc gaagttctcg 180
 tcagtatctt tctgtttata gtacgcgtag gtgaataaat gaatagggtc ataaaatatc 240
 ttaaaaccac gcaacagtga aataactaag tgcgcgcgcg gttcttagca atcaacaata 300
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 cgatcctatg ctccctggta cccttcagct agtatggtgt taagtcattc gcgatacacg 420
 cccaagttgg ctactttgga cagtctgtaa catctctgtt cgtagtcctt gtagcagtat 480
 tcttgcatat aatanacgtg ttcagaatcc acgtaaaagt ctgcatttaa ctctcctag 540
 ctgtgtgtac taggccaat ttggtc 566

<210> 8670
 <211> 423
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094h08a1

<400> 8670

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 tttgctgttg agtttaaaac tatccgtaga tgttttggtt gtttcttgct catgtgcact 180
 gggctcttgc acgcccacag caatcttggt tggcacctca cttggggcaa gaaaaggact 240
 tcttattagg ggaggggatg tgctggaacg cttggctgga ataaattata ttgctctaga 300
 caagacagga acccttacca aaggaaaacc agttgtgtcg gccataagct ctatccttta 360
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 agc 423

<210> 8671
 <211> 502

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220094h08d1

<400> 8671

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gtaagtaaag gcacaggaac caggcaaatg actattaacg aaggaaacga aaatcataaa 180
ccagagtgc ttggataaag gataacctag acgggttggc ataagtaacc caaccaccac 240
cctatatata aataattgtg tagttgaaat ttagtgagaa aaataggtat actatagcta 300
atatacctaga aggagtgaat aaaccaggga cagggttaaa aatataagtt ggtggaggtg 360
gtgactaagg gctgacgacg ggctggaagt aaactggcag cactcatgtt attccttgtg 420
taacgacgtt gttaatcaca tcgngctgt aatctgctat agccacactc acgtcgttga 480
tatagcaact aagctaaccg gc 502

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<210> 8672
 <211> 488
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220094h09a1

<400> 8672

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gttgctacac tcacagttac agtagttgtt gtgatgctgt cattgctatg cacatgtggg 180
gcaagcaacc tcgacccttt gattctaata ccaggtaacg gagggaacca actagaagca 240
aggttgacca atcagtacaa gccctctact ttcactgctg aatcatggta ccctctcatc 300
aagaaaaaga atggatgggt cagactttgg ttgattcca gtgtcatact tgctcctttc 360
actcaatgct ttgccgaacg catgaccctt cattaccacc aagaactcga tgattacttc 420
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ctcaatcc 488

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<210> 8673
 <211> 563
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094h09d1

<400> 8673

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 tcttactaaa tgcacacaat atgtaacacc aataactaaa cgggctttgt taatgtaatt 180
 atgctgttgc ctatgtggtg gtacagtggg taccgtaggc caatgcaccc ggccccgcca 240
 tgtgagacgc cttgtaactt ggtgtggtgg ccaatgctgc tgggtgtacca agggatgatg 300
 aggggtgagta acgggggaac aataacctac ggcttaggct actgctatcc agccgcaaac 360
 cctcgccaca gccgatgcgg ccagcggggc cggcctggcg gcgcctgctt aggctgcccg 420
 ttggcaagcg cggcgggtata aatttaagag cccggggccg catgtccagc tacatgtaga 480
 tgtaactata aaccaaagt agccatcaaa acaaacaact gggaaccaac ctgctggtgc 540
 aaactattag actacatgta ata 563

<210> 8674
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094h10a1

<400> 8674

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 ggctagaccc ccacaatgac tctcatcttc cacatattcc cccttgaaac tgatgtaagc 180
 tgccagcgtc agaaccgatt aacctggtaa ctgacgcttg aaacactatt atctatgctg 240
 cctggacatg tgctatgcag caccggagag cgttccgtct gaatccgata gcagtactgc 300
 ccacgaatgc aggcgaattg caacttctca ggctagtggg tggagatatg gttattaagc 360
 ctatattgcg ctacttacgg catatagttt gcgattacgg tgcacatag gtagtgctcg 420

gttcatctat gcagctagag cagctagccc tgctgatgat agagtcgctg agtgtgacga 480
acagttaact gtagttgagc agcggaata tgggcgtggt gaatagccgg ccag 534

<210> 8675
<211> 585
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220094h10d1
<400> 8675

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tagccacgta gcaaggtacc gtggcagtgg tgtgttatgc cccggtttgt tggggtggca 120
cttttggggg gtgggggttcc cttgggctta aggtgtaagc caccggttac aaagccaacc 180
taacatgcaa acgtagagca tagtactact acttgggcgc caaccccccc ggtaacaact 240
ggcgcagcag ctggctacta gagcttggca ccagggggct aaaacgcagt tgcttatgcg 300
tatgaaggct aactagcacg gttattgcta cgctaggtgg caagcctatc ggggaagagg 360
ggggtagcgc gcgtgggtat aaaataaaca gagggacgcg gagggggatt gtgagcggcg 420
tagacccgaa gagagggggc cggttaaggcc ggttgcgaga ggaaaagccg ggtgtagcaa 480
aacggacaat gncaacgtga agaaagctag ncagggccat aaccgctgag atgaattatt 540
gataaaaggc cgactactgt gaaatcaaac tanaagacaa agaac 585

<210> 8676
<211> 475
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220094h11a1
<400> 8676

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gggggggggg ggggctcgta aactttaatg gggagggccg gtggaatgga ggaggtattt 120
gataagagcg aattatcgga gggtcgcagg acaggccgat aaatggaggg ctatgcggta 180
ctaagagggtg atagacgcga ataaacatag gaggtataga gctggattat aaatatctta 240
attgtagagt gtaagtagag ctacaaaggg ctagaactgg ctgaaacggc acaacattaa 300

caagggcaag taatttaagg agagctcaga ccctgtaaaa agctagtacc aagattaaac 360
 caatgcatta acctaacgct cgcgccgtca acgcaactat acacggggcc tatggaggga 420
 cgtatgctac aactaggtga gcggcataac gagttagagc caacaaacct acaag 475

<210> 8677
 <211> 461
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220094h11d1
 <400> 8677

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 aatgaaaaag acttgcaatg aaaagcctga gctgggtggtg taggttatgc ggttgagtag 120
 ttaggggatg aggtttaaga gtaactctaa taatcgggtg attttaattt ccaagtgctg 180
 atccttactg tccacataat tggttattca tctcacaagt gcgtgtttgt agaattgttc 240
 gttagctcaa ctctcgcaac tgtgatcatc tcaatttagt tagttgttat ctctggtaac 300
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 attaaatttg cggttcattac gcccggtgtc ataatcgctg atttgattat ttttctattt 420
 gtagttctga ttgttgctgt cctaatacaac gtattactat t 461

<210> 8678
 <211> 599
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220094h12a1
 <400> 8678

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 ctgataacgc ttacacagcg gtttaagttt aaccagctgc cgtgtaagca ttacaacaat 180
 ggtagtactg agccgccacg gccgcctgag gtgccaagge caactaagcc atgattgggg 240
 ccaccgcgtc caagaccgcc gccgaggcct ccgcgcgccat ggccgcctcc ttgtcctcct 300
 attattccca gaccgcccgg cccaccaggt ccaccgttta ggccgcctcc gccgcggccg 360

ccgccgacta gattgtagct gattttggca gagcaatagc tagctagagc caaggggtggt 420
 gtcgggtggg ccaggatttg acgtaatcat tggcgcgtac caaagaaggc gccgggagcg 480
 gtcgcgtcgg gagtgataa ttaggcgaca cgggaaggca ggagtcttga ggcaaaagaa 540
 ctaaaacaaa gacgacgaga gtgggcgaag cgagcagcgt agggttcgtc agtgggctg 599

<210> 8679
 <211> 417
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220094h12d1

<400> 8679
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 gcttgggaaa taccttttag gggggggaaa aaaaaataaa ccccttaaa cgttttaata 180
 atggaatttt ttttaaaaaa aaacgtttta attagcgcca atgggggtga tgaggagggc 240
 attttagtta taaaagctca gtgggaagga attgggaaaa ccctaataat aaagggcagg 300
 tcaataaaat ttaaatggag gggagtataa tcccgtggg aaaggggggc gtttaccccc 360
 tggggggggg ggggtttaaa tagatagcgg aagagtaa at tctattaata ttgggga 417

<210> 8680
 <211> 596
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096a02a1

<400> 8680
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 aatggtcggg tagatgtaat gcaaaggcct cagaaatgta cgtgcatagg agcaagcgg 120
 tgtgccatgg accatagtca agcaaaatta gcattaagag aaatgtagcg aagaggtaca 180
 ggtatttatt taacgtcgac taaattgccg cagcacgaat gctatgaaag agaaccggaa 240
 agagataaaa gctattaatt aatagaccct ggctaaggct agctacctgt tgtgaggtag 300
 gcacaaacag ctgggtagtc ctaaaaagcc taagtggaga gggtaaccta gcaatgcaat 360

taaagtgcac agttagcaa aactgtaaat acagctaacc ggcgcggccg caaacaatac 420
 ttttaaacga gcaatgtacg tagtaaccga agaagaacat ttcctacatg gggcggtgtg 480
 cgttggccgg caagtaacgg gcggcagttg gccctcaaaa ggacggccccg tttggtgaaa 540
 gcgcagagta acagcgcagt acaaaaccgg tagcttacat aataagcagg ctccac 596

<210> 8681
 <211> 286
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096a02d1

<400> 8681
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 cacacaacac aaagagatat tcaacgccag ggagaattgt caatgggagc tacaacagat 120
 ttaactcgga gatacttggtg tcgggcttcc attc:caaaat ctcttc:caaa tgcattcttt 180
 ttgttccttc cataaggcat gttatttcca aaggcaacga tacagttgat ccaacaatg 240
 accgcacgaa tggaccttgg cacactgttg gctgtgacca aactct 286

<210> 8682
 <211> 616
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096a03a1

<400> 8682
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 ggcttacacc tgtggtagga gcggataacc gagataagtg atcccgggta ttaccaaaaa 120
 caaaagagac aataatatgc aggcttgggg ttaggattgg ccgaaaagcg gacacatgcg 180
 gataggagga agccaaacag gtggccaatg ggggcagcga cacctagttg tgaaccgtag 240
 gtggttcatg caaaagctgc ctgccggacc ggggccaacc cctaggggag tatggctgac 300
 taggataata atacgccata gacggccgtg agtgctgcta gtggtggcaa tatatagtac 360
 attaagcgcg agctatggta taatggtatg tgtgagctaa caggttggtg ctatgccagt 420
 taagacggtt aaataggggt tgctatatta gaggggttaa ctagagaaac gaacatgggc 480

cttatagggtg cagacagaca aattatgcgg tgggggttta tatagcaggg tgacaataac 540
aatgttagac tgcgaacata gtacaggtat gcaaaataag ctggttagaa tagatgtgcc 600
acatagcgag gtagac 616

<210> 8683
<211> 411
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220096a03d1
<400> 8683

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tctttcagct acagaaacag attacatcaa ataagtttTgt ctaaactacc tcactctctt 180
tgaatttcat cacattactc gtcctttTtac tgcttggacg taatatcttt aagcttttTcc 240
ttcaaattcac cagtctgatg catattaaga acaatatctg atccaccgat aaactctccc 300
ttaatgaaaa cttgtggaaa agttggccag ttactgcaga gaaagaacac acgagagaac 360
agtaggacat cacaaaaagt atatttgact tttctgtcaa taattaaact t 411

<210> 8684
<211> 270
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220096a05a1
<400> 8684

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aattggaatt atttgTTTTc ttattaggcc tatcctgaag ccaaaggaaa tgagatcgga 120
attcctcggg gaattccaat tccacatttt caagaaataa ggaggcaaaa atgttcatat 180
atgaattgga attatttTgtt ttcttattag gcctatcctg aagccaaagg aaatgagatc 240
ggaattcctc gggggTaccg agctcgaatt 270

<210> 8685
<211> 240

095413.032200

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096a05d1

<400> 8685

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 aaaaaagaa aggatcttga gtgagggata aaagggggtt tttcgaaaca ttagaaagaa 180
 ttgtccccg gttcaaaaag aacacaaagt tcccaccctt aggagggcg aggagggggg 240

<210> 8686
 <211> 516
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220096a06a1

<400> 8686

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 atgaaacttg ggctttcatt ttcgggtcttc taggcaacgt gatctccttt atggtgttcc 180
 ttgctccatt accaactttt taccaaactc acaagaaaa atcatccgaa gggtttcaat 240
 cactacctta tgttgttgca ctgttcagtt caatgctctg gatctattac gcacttgtga 300
 aaaaggatgc tagcctcctt ctaattacta ttaactcctt tgggtgtgtg atagagacaa 360
 ttaccttgca aatcttcctt gtttacgcc caagcaaac caggctttgg accatcaagc 420
 ttcttctcat gttgaatgtt tttgggtttg gagggatgct tctttcaaca ctatacctta 480
 cgacgggttc caaacgtctn tctgtgatag gatgga 516

<210> 8687
 <211> 541
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220096a09a1

<400> 8687

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 gccaaagaaa tgccatagcc atagccatag acagagttat cccagttatt gacatcaatg 120
 gagttgagcc ttggaacctt ccaacacttg ctggggagct ttgtcgtggg gacacggagc 180
 aatggttttt cttttcgccc ggtcaagaga gggaaaccag gggaggcaga cccagcagaa 240
 ccacagcttg tgggtatttg aaggctacag gttctccttg ctatgtttac tcttctcaca 300
 acaaagtcac tgggggtgaag aaatccatgg tcttctacaa aggaaaagca cctatgggaa 360
 caaaaaccaa atggaagatg aatgaataga gagccatcca tgctccttcc caatccaccc 420
 ctgccaccct tcatttgaca tgtgaattca gcttgtgtcg ggtatatgtc atatcgngga 480
 gctttcgagc atttgatcga cgaccattag agaaagaagg agcagagtcg cgggttcata 540
 g 541

<210> 8688
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096a09d1
 <400> 8688

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 aggaaataga tggaagtatc gtctacatac aagctatctg caaactaatt ggggttaaatt 180
 aacaaaaatc cttcttaata tgacatgatt ttctatgcta actttcctta atccaattct 240
 aaacaaatat cggatgaatg actatgtatg tatatataag acttggttga tgtcatattt 300
 taatgagtca tttccctgag gagtctttct taaggctcga gcatgtggct ttgagttaga 360
 gccaatataa atgttcccat tccaattccc acaacggttc ttgaagttgg aaccattctt 420
 cattattatt attattattc acatcccact ttgcgctact tg 462

<210> 8689
 <211> 233
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096a10d1

<400> 8689

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catttttgcc tccttatttc ttgaaaatgt ggaattggaa ttccccgagg aattccgatc 120
tcatttcctt tggcttcagg ataggcctaa taagaaaaca aataattcca attcatatat 180
gaacattttt gcctccttat ttcttgaaaa tgtggaattg gaattccccg agg 233

<210> 8690

<211> 504

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220096a11a1

<400> 8690

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acaggagca aaggctcaac ctttggttcg acccaccaa ggattttcac tcataactcta 120
tcttctggaa tcaacgtcaa gttgtatttt tggatgatga gacaccaata aggggtgcaca 180
caaacatgga gcacaaggga attccatttc ctaaggacca acccatgggt gtgtatagct 240
caatttgaa tgctgatgat tgggccacgc aggggtggtcg cgtaaaaaca gattggagcc 300
acgcaccatt cattgccaca tacaagaact ttgagatcaa tgcttgtagag tgtcccgtgt 360
cagtggctgc aatggataat gctaagaagt gcactatcag ggagggaag aagtattggt 420
gggatgagcc taatttggt gaactcaacc tgcaccagag ccaccagctt atgtgggtta 480
gggcaagaca cattntctat gact 504

<210> 8691

<211> 578

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220096b01a1

<400> 8691

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agagacgcaa atagaaagga aagaaataga cgcatcacca gagatacagg aggttaagtt 120

attagcgaga actaaaggaa ggaacaatat atggaaagca actagcgtgt gtcgactgta 180
aagactggcc ttacaaggat accagtcacc actgttgcaa acatttgaca cttgggctgc 240
tggccctttg taatatccat gccaccaaca agctactacc actactattc agcaaccctg 300
taatttagaa cagttatgcc gtagtttaac ttggtagcgg cggcaagagc atactacctt 360
taacctggtg actgcccggc agctatacgc ttccgcagac ccagccgcct taacgcaatt 420
agcaatattc taaatttaag gccaacgccg cttaatatcc caatagccct gtacttcaag 480
gatcactgga tcgatctcgc tagctcatcg tagactgtgg tgaggcgctt attgaaaggt 540
aaggtatgcc ttcgtcgggg ataatcgtcg catgccca 578

<210> 8692
<211> 526
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220096b01d1
<400> 8692

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gcagtcactg aaaacaagaa taatctgctg taggaggaag ccactttcat gtttaagagt 120
ttgacagttc cttggatctt gaacatcagc tatgtgacag tttccaaagt gatctgcagc 180
acttcaaaga gataacatat gtccagagag gatggctcat ctagactagt ggagttagtt 240
tcatccatta tttggtgaag acttcaagtt catgattctc tcaccagaat ctgtgaataa 300
ccaacagga gaggtagatc aagagggagt tatccctttc atatggtaaa gaagtcaact 360
acttgtttta ctttctttat ccaaaagaag aaagtcaact acttatattt gatacaactt 420
ttttgctctt atctgccaca accataaaag ccttaacaag ctctctctta accatgaata 480
gaacagaagc ttgcaaaaaca ctttgtacta tctttgtgct catccc 526

<210> 8693
<211> 529
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220096b02a1
<400> 8693

tcacgtagct ctatcgctag ctaatgtccc agagtgccgt gcaactataat gtcacgcat 60
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gttgccacct gtatgttcca ctccccctcac gctatctttc aggtcctggg cctaacaaaa 180
acctgtttct tttaaacaaa cttgttaccc cagtcccttc acatattcat acattttggg 240
ccgagttccc tcttaaactc tttcaagatt gtcagccac gtggcgcca catgatcccg 300
gtcagttcgg gccctgaacc aactttctcc acgattgcta cggtcactgc catgtctgcc 360
attacaattg gctcaacaat cgctgcccc atagtaggcc aattaccatt cactgtctcc 420
atcgcaacgt tatcttcggg tacattgata ctcaccgagg gccctgttac aacggttcgc 480
acgctcaatg tagttagcca aacgccctta gctgtcttat gtgtccact 529

<210> 8694
<211> 484
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220096b02d1
<400> 8694

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acaaaaagcc gaagaagaaa agacttttac aatatgctag taatagtgac gaggcacaag 120
aaagactctt cttcttaaga ggaggatgag aaggtgtcaa tgatggttgt gtggagtggg 180
tactcaagt ggggtggcca gttgttgagc gggcccttgc cgggtggcggc ggcttggact 240
gcaaagccca agaagccac catggcaaga cgggcgtgct tgatctccgc caattgaagg 300
gtggctttct tctctgggtc tgaggccagg cccaatgggt cgaagtaact gccacctggg 360
tacaacctct tctctgggtc gagctctgca ttcctctgga actctatgta gccaattacg 420
agtacctcga tccaaatcag tgtggtgatt gagaatggaa gtggttgccc aaggatgat 480
gacc 484

<210> 8695
<211> 448
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220096b03a1

<400> 8695

tgactggcta ctcgtttagt taccgcctgc ttgggggggg gggggggggg gggggggggg 60
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 ggaaaaaaaa cccccgaaaa aggggttagt ttcccggaaa ggggcccccc ttaaaagggg 180
 ggaaaaaggg agaagggggg acagtttttg ggaaatttat ggttttgggc cgaaattttg 240
 gaaggtggcc ccaaatttgt tggaaaacct cccccgaaat ggcaccccc ttaaaaaaac 300
 cccggggggc aaatttaagg ggggcaaaaa tcttttaggg gccgaaaaac ccccgggggc 360
 aaaaccgccc cgggtaaggt aaaaggcccc ttcttgagg gcccccgagg gaggtgcccc 420
 ttaggcttta tgggggcccc ccgggggt 448

<210> 8696

<211> 397

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220096b03d1

<400> 8696

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 ttccaaacac aaagtaagca gcctgtgtta cattgtttct cctatgtaca gattcacctt 120
 ctactgaaaa tagtaatatt tagccctata ctactgcaa tatgttcctg cctcacagtc 180
 agcgtagcaa cccaaataat gttctgagca caacctagaa tgtattatag ccagcttctc 240
 ctttttccaa gagagtagag tactactggg tattttccaa atatacgata tttcctggca 300
 taaaaagctt ttattctgat tacatcattg ccacattct caggaagagg gatttcccac 360
 catgcagggt gataatcaga agatcaaact gtgatct 397

<210> 8697

<211> 561

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220096b04a1

<400> 8697

tacctatact cgtagcact accacctact tggggggggg gggggggggg gggggggggg 60

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gggggggggg gggggggggg gggggggggg ggggcccggg gccggggggg gggggggggg 120
gggggggggg gggcccaaaa ttttttttca aaaagcccgg ttgggaaaaa aaaaaccaac 180
cctttttaaa atttttttgg gtaatccett taccgtgcc tgtaaaaaat tttttttgcc 240
ccccaatatg gcctttcacc cccaaaagga caaaaaaaaa tttttcccc aaaccccccc 300
cttccccgaa aaaattaaag atttaacccc catatcccca aaattaaaat ttttaaaaac 360
agccccctt tttggcatat tcccgaattt ctgccccctt ttttttttaa aaaaccccc 420
tcaaaagggc taaattttta tttccccccc caaatTTTTT tttttgaaaa actttccct 480
aaatccaaaa atgtctgaat tgcgttcccc caaaaaacct tccccTTTT ttggggcccc 540
cccctattgt aaaaattttt t 561

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<210>      8698
<211>      566
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmf102220096b04d1

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<400>      8698

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actacaatca gtcgaagaca ttgaaccaca attctcccta ggaagtttct tgtacaactt 180
tcagaagttg ccacgaaaac cattaatcgc aagatggatt acattagcaa tagctagcaa 240
tacacgtctg acctgcttta ccaatttaaa ccaactccaca ttatatatgg ctctaactta 300
tcattttgga tgataaatat ggcttgatct aaaacacaac aggataggac agcacttgta 360
tttatcaaac tattgtcaat ttccaattat aaagtaatca gtttcatgca atgggttcaa 420
aatagctgg caagcaaagg aaacttaaaa agacatccac gagttacttc atcaagcacc 480
agtagcctca accatttctt tgtccacggt gcttggggta actgggtagt aatggtaatg 540
aagtttccca acatcatcac cagaca 566

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<210>      8699
<211>      234
<212>      DNA
<213>      Glycine max

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<223> Clone ID: jC-gmf102220096b05a1

<400> 8699

cagcaaaaaa agaaagcaaa aatgaaaacc ctagaggaga agaagccaaa gaaaagaagg 60
caaaaaaaag gctccaaaga tgggtttcaa aagctcttct cttctatgcc tagctctttt 120
gcttgcattg ctcttcggggg attaatggcc ttgacatca cactaaactgg tatgggtcaaa 180
atccaaagtt tttccacaat taaacaaaaa ccttaaccga aaaccaaagc tcgc 234

<210> 8700

<211> 56

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220096b05d1

<400> 8700

cgcccgtgct gctcaggatc ggccgtctca gaaaacagat gacgctcgcg aactag 56

<210> 8701

<211> 571

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220096b06a1

<400> 8701

cgcctttctt ctccgtttcc gtttcctcgt tcgaattcgc tttttgatct gcgaaaatga 60
gagagtgcatt ctgatccac atttggtcagg ctggtatcca ggtcggaaat gcttgctggg 120
agctctactg cctcgagcac ggcatcgggc ccgatgggca aatgccaggt gacaagacag 180
ttggcggtgg tgatgatgct ttcaatactt tcttcagcga gactggtgct ggaaagcacg 240
tgccacgtgc agtggttgta gatcttgagc ccactgttat tgatgaggtg agaaccggaa 300
cttaccgcca gcttttccac ccagagcagc tcatcagcgg caaagaagat gccgccaaca 360
actttgcccg tggccattat accattggga aagagattgt tgatctgtgc ttggaccgca 420
tcagaaagct tgctgacaat tgcaactggac tccaaggggt cttggtcttc aatgccgttg 480
gtggaggaac tggttctgga cttggttccc ttctcttgga gcgtctcttc gttgattatg 540
gcaagaaatc aaagcttggt ttcacagtct a 571

<210> 8702
 <211> 560
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096b07a1

<400> 8702

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 atcctgatga ggtctctggg aggtaacccg acgcaggccc aactcaaagc catcgtggct 180
 gaagagaacc tcacggcccc cttcgacttc ccccgattcc tcgatctaata ggccaaacac 240
 attaaacccg aacccttcga tcgccaactc cgcgacgcct tcaaggctct cgacaaggac 300
 tccaccggct tcgtcgccgt ctccgagctc cgccacatcc tcaccaacat cggcgagaag 360
 ctcgagccct ccgagttcga cgagtggatc cgtgaagtcg acgtcggatc cgacggcaag 420
 atccgctacg aggatttcat cgccagaatg gtcgccaagt aacgccgatt ccattctctc 480
 ttccagtggt tattttctct ctttctttcg ctttgggggtg ttggcttttc agtggacca 540
 ataatagatt aatcaattgg 560

<210> 8703
 <211> 442
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096b08a1

<400> 8703

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 gttaggctgt actattttcca tgtgaaatga aatcatccat cttagtccgt gacaattttt 120
 tactagacgt atagaaaaaa aaaagttatt gatatgctta ttgaactaac gggtttgcaa 180
 ataagcataa ttctgctagt cctgttgaaa agagctgcag tcataattct agtatgttta 240
 tagaaagctc attttgtatc atgtatgtac tgtagctaaa ctaagtttca ccctgaactt 300
 gcttgtgagt ctgctctcga tagaacagtc ttgtacagta acgaaaaacg ctgtaaccag 360
 gtccttttct atattgtctc attttgtgtt atgcttatgt tgatttagct tgtaatggaa 420

gtcattttcca attgttttga tt

442

<210> 8704

<211> 528

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220096b08d1

<400> 8704

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atttgccgaa taacttaata ccatccagaa aatctagtgc aaagaagtta cataaggaca 120

tctttcagct acagaaacag attacatcaa ataagtttgt ctaaactacc tcactctctt 180

tgaatttcat cacattactc gtccttttac tgcttgagc taatatcttt aagcttttcc 240

ttcaaatac cctgtgatg catattaaga acaatatctg atccaccgat aaactctccc 300

ttaatgaaaa cttgtggaaa tggtggccag ttactgcaga gaaagaacac acgagagaac 360

agtgaggacat cacaaaaagt atatttgact tttctgtcaa taattaaact tggcagcacc 420

tgcaattcta gtactaccat gtttgagaac taattaatat gatcccatat accgctttaa 480

agtgaggac aggggttggc tgactaaatt ccagaggatt taacatga 528

<210> 8705

<211> 302

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220096b09a1

<400> 8705

gaaacctaac agcgccatag ctttctctat tttatagtgg gaggatacgc ttctcttggc 60

acaaggggag caccaagggg cctgtgctg tcgttgccca ccacgcccat gtcggaaccc 120

gacaccagc gcgcgtgcc gtctacgtac ctgtacagc gccgcgcgat tctgtagact 180

gcgtttccga tcttcaagca gcggtcgtg tcgtcgagc cctttcgaga cgaggcgtgg 240

tttctccga aggggaactg gtaaaaccga cgtaattaga gcgttaccga tgaagacgtt 300

gg 302

0953113-032300

<210> 8706
 <211> 466
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096b11a1

<400> 8706

caaaaaaaga aagtaaaaaa gaaaacccta gaggagaaga agccaaaaaa aagaagccaa 60
 aaaaaaggct ccaaagatgg gtttcaaaag ctcttctctt ctatgcctag ctcttttgct 120
 tgcattgctt tcggctattc atgcctttga catcacacaa ctgctaggcc aatatccaga 180
 gttttccaca ttcaacaaat acctaacgga aaccaagctc gcagacgaaa tcaacagccg 240
 caacaccatc actgtcctcg cggttgaaga ctgagccatg aattccattg ctgccaaagtc 300
 cccagaagcc attaaggcca tcattagcac ccatgtcatc cttgacttct ttgatgagaa 360
 gaagctcatg gaagctcaag ctaatagcca acagttgaca accctattcc aggctcagg 420
 cattgcagtg aaccaacaag gcttcctcaa ggttgactc gtcggc 466

<210> 8707
 <211> 427
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096b12a1

<400> 8707

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 tgaggggggaa ccatctaaga gagagactcc aattagatcc aagagagatg gccatcagcc 120
 atgaaacttg ggctttcatt ttcggccttc taggcaccgt gacctccttt atgggggttg 180
 ttgctacatt accaactttt taccacatct acaagaaaat atcatacgaa ggggtgccat 240
 ctcttcctta tgctgtcgcc ctgttcaggt caatgcttcg gatctattac gcacttcgtg 300
 aaaaaagatt gccagcctcc ttctaaaaac tattaacttc tttgggcggg ggatagagac 360
 aatttacctt gcgactttct ctgtttcccc cccagccaa tcccgggttt tgaccatcta 420
 gcctctt 427

<210> 8708
 <211> 594

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096c01a1

<400> 8708

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ttgcgtggta cgtgtgtgga gtgccgcctg cttggggggg gggggggggc gggggggggg 60
gggggggaga tttggatgag gtgggggtatg cgtgcagttg atagaagtcg gggtaagagt 120
gggggtggcc gggcacagac agcaggtaac agggtcggca gtacccgagg tgctggggct 180
ttcagggtca cgtgtgaatg ttaaggtaac acaggtaggg gggggtgggt gacgaagcgg 240
tgggggaggg gtatgaatag gggcagggat aggacaacaa aaaaaaacga agggcaggcc 300
gagaattgct cacggatttt gagagctcgt agaaaagagt ataaaggggc aaaacaatta 360
aaaggtgcca ggtcagagcc aatcaggggac gaggggtgtga ggcaggttta gttaagtaaa 420
agatgggtga gatagagggg gggttagagt gacaagtcta gtggttcaga gagaagggtg 480
cagaaacaca ggagtgagca gagttaagaa ggtgggggga gatcgcggcc aaggacaaca 540
aagtatggcc ggggggggga tggcaaagaa ccagtgagag ttagaaagag agca 594

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<210> 8709
 <211> 603
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220096c01d1

<400> 8709

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gagtacaccc cgggacgacg agcatactac tcgagagtca acccaacagg ctagctttta 180
gggagctgct tgtcactgct cccggagtcc gggaatatct cacatgggtg catcctcttt 240
gaggaaaccc tctaccagag cacaaatgca ggcacgccct ttgcgaatgt cacgaaggac 300
gctgtggtgc ttacctgtca tcgaggctga cacggacaca gactatctac ctgcaactaa 360
cgtagaaaca acgattcagg gtctacatgg ccctggtaag cgttgggcct agtactacta 420
agctggtgca cgttctgcc aatggggagc agtgctgaag attggtgcca acaagccatc 480

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ggagctgtct atccatgaga acgcctatgg cttggctaga tacgctggca tatgccagga 540
 gaatggcctg gttcccattg tcgagcctga gacacttgtc gatggacctc atgacattac 600
 aag 603

<210> 8710
 <211> 519
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220096c02a1
 <400> 8710

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 gggggggggg ggggggaata acaaaaatat aaaagtaatg cgggactgag tgtgccgggt 120
 ggccggttaa aatgcgaagg ggcaaaagaa gaggacaacg gtagggatac aaaagaaggg 180
 gtttaatatc tggatgagca catggggaaa aatggaagaa tgcaagcgag aaaatgaagc 240
 tagccttgat cgatcatggg gagggggact ttgagggcga tagggcaaag tgtcgagtaa 300
 taacaaatag cttaaggga agttttatat aaaagggaag ggctacataa tccagtgaga 360
 aggctccgt aaatatgtgc agtagggatt ttcaaaataa aggatggaaa ttcactgtac 420
 tagcacaagg aaggcaacga agtgtattga tgagggtagg gacgctaatt gtagttggaa 480
 cgaggcaacg agcacatatt ttagtgagtg gaattatgg 519

<210> 8711
 <211> 497
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220096c02d1
 <400> 8711

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 tategtgact ggtgacatcc tttctgagga aacctctac cagagcacat ctgctggcaa 120
 gccctctgcg aatgtcttga aggaagctgg tgtgcttcct ggactcaagg ttgacacggg 180
 cacagtcgag cttgctggaa ctaatggaga aaccaccact cagggcctag atggccttgg 240
 tcagcgttgt gccaaagtact actaagctgg tgcacgtttt gccaaatggc gtgcagtgtc 300

gaagattggt cccaacgagc catctgagct gtctatccat gagaacgcct atggcttggc 360
tagatacgct gtcatatgcc atgagaatgg cctgggtccc attgttgagc ctgagatcct 420
tgttgatgga cctcacgaca ttcacaagtg ttgccgacgt caccgagccg tgttctttgc 480
acatgctaca aggcttt 497

<210> 8712
<211> 491
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220096c03a1

<400> 8712

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actggccaaa aagtaaagga aatactgcaa tataagaaca atcgaaatct agatagcgga 120
taagacattc cgaatatgtt tgcgcggcta aaaggctgct aggggcaaaa gagctaaaac 180
gccagtaggg tagtaacgaa gcgtaggcgg gtggagcccg cgtaaaagga tgataccact 240
gggtgtagta aagggacctg cgcttgggga atgtacaaag caactgggtca ggtgcttggc 300
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ggtgttaggt atcataagga ggccgggctg gccgtaggac ctgggcccgg gggcacaagg 420
ttaggcgtaa ggaaacctgc gactgtgggg ggaataacgg gcgcgatacg tcccgtgcca 480
cagggtaaaa a 491

<210> 8713
<211> 501
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220096c03d1

<400> 8713

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atgtcggtta tgtatagggt cttacaaatg ggaaatacag gagtgtggag catagagctg 180
tggctcatga ggagaaagct agactctcaa ttgtgacatt ttttgctcct agctatgaag 240

tggagcttgg tccaatgcct gagtttgtgg atgaaaacca cccatgcaag tataaaatat 300
acaatcatgg agagtacagt aaacactatg taacaaacaa gttacaaggt aaaaagaccc 360
tggaatttgc caagatccaa accaagaaca caaactagga agttccctaa ctagttagga 420
gaactataat tagactgact aatgactgtg tgtgtagaat taattatcta ccacataaaa 480
gcatcatggg caaatctctc g 501

<210> 8714
<211> 483
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220096c04a1
<400> 8714

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gggggggggg taatattcga aacatgggga gtgggtcaag taagtccgag agtagccgga 120
gatagcatta cacggtgtcg ctaacaagag ctgtataagt aagacaaagg aaaaatgcgt 180
cactgaaacc aggtgtgcag tagtgggtga gttaaataa caaagcaggg gaaaaagaag 240
gggtgtgata ggggcatata agggtaaaga taggggaatg aatgatgcgg taaatatggc 300
caataaaaca aaaaactagt atgattcccc ggtgaatgtg gtttgcaag tgccagggtg 360
tggtaaaagg atcaaattgg taacaaggcc gcagacccca agcgaggggg ttccggcttac 420
tgtactttgc gttttactac ttaccacaat accccgccac gcccgtgcaa acttacgcag 480
gcg 483

<210> 8715
<211> 270
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220096c06a1
<400> 8715

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tcacaggaca taatgggggt ccagaggaaa aaccacaacc ttaacacctt tttccaccaa 120
tcccaatcca ttttccact atgctcttaa actttccccc attttaattt ttttcacctc 180

tttcacaaat tcccactcct ttcctttttac cctttaaggg ctctcccttt gttgcaccgg 240
ggttttctgc ggcggcggcg cccccggggg 270

<210> 8716
<211> 407
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220096c06d1

<400> 8716

ggcggccgcc cttttttttt tttttttttt tttttttttt tttttttttt ttttttttaa 60
gagcaacaac gttttacgga aacatgaaat ccaatttacc agatgggcaa aaataaaaaat 120
aaaaagccag ccaatttttag aacaaaccga ttggggccgc ataacatgta cccaaaggtc 180
ccaaactcca cttttactac cattaaagta ttattccgca aaccggccat acacttttag 240
gaattacaat cttcttcacg ttggagggga gagcaaacc actttcgcac cacattgtat 300
aagtaagaca caggcgtctt tacatttttag tgtcttcaca tatggggggg tgcttcaaca 360
tactttttct ccttatcctc ggactcccct ttaacctcaa aaggggg 407

<210> 8717
<211> 501
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220096c07a1

<400> 8717

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gaggaggaac cagtgtacga gaccgccgga atgttgctcg agatgttcaa ttttccgccc 120
gcgacggaat tgctggagca gcagcacgcc acggcgacgt tccgggcggc gaggcaagcc 180
ggagagtggg acggaaacag acagcagcaa cagcaacaga tttcaggcat taatgctgac 240
tcagcagcag ccatgcaact ttttctgatg aaccctcaaa cgaggtcgcc ttctcctcct 300
caaagccaca ctattccttc ttcaactctt cacatgttgc ttccaaatcc ttcttccaat 360
tcctccaag gatttactgg ttcggccgcg ggagggtctt ttggtcaatt cacatgggtt 420
cctgagggtg ctaccaaca aggaggcgtg gtggaagggc aaggtctttc gttatcgctg 480

tcttcttcgt tggaggcagc g

501

<210> 8718

<211> 501

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220096c08d1

<400> 8718

aagcagaaaa cattgcacct catcacttat tctaccaaca tgggtgtaaa taatggcgat 60
 ccggtgggttg gagtattcaa aatcattcac caatgtatgt tccttcttag tgggttcgga 120
 tgctctatct ataggaggaa catacgttca tgaaatgaaa gaaacactat cccctacagt 180
 aaaaacgatc cccctaattc aaaattccca atgtcgacat agtgaaatta aataatcatt 240
 atatgatcgc gtaacgaaag ctctatcttg cttgggttgg ttgattcctc cttcttcaaa 300
 gtgtcacgct agggaaacttg caggatccat aacttggatc ctttgcggtt tgagttgcaa 360
 gccattgaa gtaacaagtt ccgccaacct tcctaaactg cgcccaataa gcactaaacg 420
 catagctcgc gtgccagaaa accgaatcgg gtttaaaaca cttccccctc gattggatcg 480
 ggtcgcacgt gccattcccc t 501

<210> 8719

<211> 527

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220096c09a1

<400> 8719

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 cgtcccactt ctacccccga caatgcctca cgccaaaacc tccaatcgc agcagaacat 120
 aaagcagagg gtactcacgt gcctaacgaa gctctcagac cgcgacacac aagccgcggg 180
 agccaccgag ctcgagtcca tcgcgcgtac catagacca cactcggttc cagtgttcct 240
 ctcttgcatc cactccaccg actcctccga caaaaccccc gtccgcaagc aatgcgtgca 300
 cctcgtcgcc accctctccc acgcgcacgg cgacgcgctc tcgccgtttc tgtccaaaat 360
 catcgctcgc ctcgctccgc gcctccgcga cccggactcc tcgggtccggg ccgcgtgcgc 420

cgactccgctc ggcgcactct cggcgtgcgt cacgaggcag cctttcgccg ccgcgttcct 480
 caagccgctc gcggaggcgc ttttcacgga gcaggacccg agctcgc 527

<210> 8720
 <211> 271
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096c09d1
 <400> 8720

aatccacaca atgggggggg acttccgtta caagctaact taacatatcc ttaacacaaa 60
 atgaaacaat ttagaaaagg acctgggttc cgggattttc tttatctgtc aaaattgttc 120
 tattctgagc agtctcacca gctagttcag ggcgaaacct aatttaattt cagttcttac 180
 ttgattcaaa atgagctttc tataaacagt ctcgaaactat gcctggattt tttttttaca 240
 ggactagctt aattatgctt atttgcaaac c 271

<210> 8721
 <211> 554
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096c10a1
 <400> 8721

tctccataca ataatccgag tgacactcct cactttgtgg ccatggcttc actgaggtgc 60
 ctccactcaa cccaccctca tcttcacgc ggttcagcgc ttctcgccat ttcgaaccgc 120
 tgcttcaacc attcctcctt gctgaaccgg actctctccg taaaccctcc tcgaaccgct 180
 cctccacgcg ccatggccaa gccagtttc tcaactgccc aagacctagt ggcttctcct 240
 ggcgattttg aatttgcgca gcctctgaaa attgtggagt atcccgaccc gagattgagg 300
 gccaggaata agcgcatagt tgccttcgat gatagtctga agaagcttgt ccacgaaatg 360
 tttgatgtaa tgtacaaaac tgatggtatt ggtctctcag caccccaatt aggaattaat 420
 gttcaactta tgggtgttcaa tccagtaggt gagcgtggtg aaggagagga aattgttctt 480
 gtaaacccaa gagttagcca atactcaaag aaactgacac tatttaatga aggggtgccta 540
 tctttccagg catc 554

<210> 8722
 <211> 508
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220096c11d1

<400> 8722

aactaattaa atgactttat tgaaattgga ttccccaagt ataattttca ttatctcttc 60
 ctccacttat tgggagggtg aaagttttac cagttactat agaacaaaat taatctctct 120
 gatgcaaata tctaagatac ataaataaca ttccattaat ttccattatg tccaaagagg 180
 ctcccaagca gtacccaaac tgttgctctc tatgaagcag ctcatatcaa cgtgagggtg 240
 aggctgaagc acgtgctgct cctgtgactg actcatttcc atgcaaatta gggccactaa 300
 attggcttgt tggcactgca tgttcactac ctgagcttgt gctttggcca gctgtgcttg 360
 tagctcacta acttgctttt gaagttggca tattgcacct gcacacccat aaactgggtc 420
 tctgatecta gcatttgctt cataaaccat gctgctcaca gcatctgctc tctgggattc 480
 tggcagttcc tgcaagaact tgatgatg 508

<210> 8723
 <211> 456
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220096d01a1

<400> 8723

ttacgtggct acatgttgaa gtaccacctg cttggggggg gggggggggg gggggggggg 60
 gggggggggg gggggggggg gcatagggtta atgaaaagtc ccccgccgaa ggagggggga 120
 aaagtacccg gaaaagaatt ggcgagaggt taccgataaa aaatcatctg gatcaacaag 180
 cccaaaaggg cataaggtgc caagtgtgct ggaatggctc cacccaagct tcggtggtgc 240
 aattttagta gcccaatggg catgagattg aggagcaagt gtgggcgaat gcgaaattgg 300
 ctttagtgat gggcaagggg ggcggaaaat tggataggct ggagttataa ggcaaaagcg 360
 taagcgtgga ctctatagag ttttggcgga aatatttagg gggcgctgtg tggccaattg 420
 tgaagcataa ggccgggggt gctagatttg gaaaaa 456

<210> 8724
<211> 252
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220096d01d1

<400> 8724

gttgttcaaa aaggattgaa cggtcataaa ttaattgaaa cacaattgcy aagtcgacac 60
attgatagat attcaagggc cgctcatgga cccgggttgc acacacacgc caagttctgg 120
accataaaag aagaaaggac cttattatag acttttacat acttttagatc acaccaaaca 180
agggacctgc agaccattct caaactcaaa acccaccacg aagacgcaag acaaggggaa 240
gagtaaactc tt 252

<210> 8725
<211> 581
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220096d02a1

<400> 8725

tacgtggcac tgtgtgaagt gctcgccctgc ttggggggggg ggggggggggg ggggggggggt 60
cggtaaagaa ataggtgacg ggagacacct ataaaaaagg tttagggtat agcacaggat 120
atgggacccc ctggatacgc accctgcacc acgagagcat cataagtagc ccggaaaggg 180
acctaatatg cttggctagg actgagaaaa tcgcaggtgt gtggccgtct aaggcttgac 240
ttgtatttgg tttgggttag tcgcggctag ggggcccag ccctaagtag catatgacct 300
gctttccttg agggaacaaa gatgaaatat tatgccaaag ggtaaccgga aaactagcgg 360
cgtaggtgag ctgaggatac cctgagaccg tgccggggcg ccacaggcaa gtgtggggcc 420
cgtcgcgtgg tggttatggg gggggctcta atggtagcac agaccaacca attgtatact 480
tgcagctgct tagaacagga ctaatagggt caaccaagcc aagcgtagtg gttcgcgaaa 540
aacgaagtct ggtgttacgt tgggttgcgtg gcttacaatc a 581

<210> 8726
<211> 355
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220096d02d1

<400> 8726

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aggacgcctt tttttttttt tttttttttt tttttttttt tttttttttt tgggctggaa   60
ggggagcata ttacatatat gttatctcaa caaacaagaa aatcaatata aacttgatta  120
agataccata tatataggac tggatataaa tacacatatt tcccagaaga tcgacaacct  180
aataatagat acatcataca tgcacaaaac tagtggaaga agcagggggct tcaatttcac  240
acttaattcc caccctaaatt aaagcactta atcttccatg agtgccaaat taattaagga  300
gcccatggtg gccttcaaaa accttggtgaa aagaattttt cttttcttat ttttg      355
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<210> 8727

<211> 550

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220096d03a1

<400> 8727

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ttgcgtgata tcatgttgca gtgccgcctg cttggggggg gggggggggg ggggtacaca   60
gagcaaaaaa tcgggttaaa gttagggaaa atgtgaaaac gggattaact aagggtcaag  120
aaagcgggat aatggtatag aaactgttaa aacgattcca ataactaac gggtatcaaa  180
acaatgatta gatatacact atcaccaaaa aaaaaataat atacataaac gaatagaata  240
cgctaaatgg tgaagtaaga agtggtgttg gtagtattag tgggtgtacg gcttgtgcta  300
ttcatggttg tagaagtggg tgttacccta ctaacagtgg tatcacttgt acacaatgtg  360
tttgtgggta gatttgtatt aatagattaa gcaataaaac tttgtggcct agatagcacc  420
gtaaagggcg ccgtcagctc acacaacatt gtaataatat gccgccaagg ccacagtagc  480
tatatacttt gtgcaattgg cctaacagta ttcttaccaa taatacggcc acctgccgaa  540
ggcagggttat                                     550
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<210> 8728

<211> 375

<212> DNA

<213> Glycine max

0953113.032200

<223> Clone ID: jC-gmf102220096c03d1

<400> 8728

gggagaactc aaattaattt cattcagggt acttgcaatg actataacag tgggtaatga 60
tttgtggcta gactagctag catagagaat tacagaataa aagcataaac atgtgcttag 120
cagttacctc cttcataaca ttacattgtg caaattattt acatacatac tatactgggtg 180
cccctaccac gtttaggcat ccaccccttat atttaattgt tagaaacatg tatagcagtg 240
acagttgaga ccactagtc caccacacat acattgcgac ctctgcagat cttgtaatat 300
cccttttctc ccagctctc ccccatgaa ttttttatga tccaggtagg gctttcctta 360
aaacgaattg gagca 375

<210> 8729

<211> 528

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220096d04a1

<400> 8729

ttacgtggct actgtgtgga gtaccacctg cttggggggg gggggggggg ggggtattgaa 60
agggcaaggc ctggtgagga ggaggaggag tgagttagtg agagcggata aagacatagt 120
ttaaattagc tcgatgcctg ggcaaatcaa aatacgctag aagatgccga agggcggaga 180
acaaacgcag ggacaaatcc agctaacc aaatacatagg gttgagcaac tctgtttgaa 240
gttagcagtg ggtagggcta ctgggtgtta cgagtagagt gcatcaagtt taggaagggtg 300
ccgttgggaa cgtggcccgg aggtggcaaa tgggtggccc acaatggcca aaaacacttc 360
gagcgtccca aacgattata gacagtaggc gggcagaccg tgaacagtgg caccgggttt 420
aatggacgca cggtttgtcc gaggtgggta cgcactggcg gctgcggcac gtctaacaag 480
ggcagcggcc acaccgccac acccgctgc gcagccagtt acgcaccg 528

<210> 8730

<211> 425

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220096d04d1

<400> 8730

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tttgtttttt tttttttttt tttttgcaca cacttaatat tctaatacaa acaattgaag   60
aggagtcttc tattacgaag ctaaattaac tttgccgtaa cacaaaatga cacactttag  120
aaaaggacct gggtacagcg tttttgggta ctgtacaaga ctgttctatc gagagcagac  180
tcacaagcaa gttcaggggtg aaacttattt tagctacagt acatacatga taaaaaatga  240
gctttctata aacatactag aattatgact gcagctcttt tcaacaggac tagcagaatt  300
atgcttattt gcaaaccctg tagttcaata agcatatcaa taactttttt ttctctatac  360
gtctagtaaa aaattgtcac ggactaagat ggatgatttc atttcacatg gaaatagttc  420
agcct                                          425

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<210> 8731

<211> 170

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220096d05a1

<400> 8731

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ttagaaaata gaatatgttg gaccttccag tttcttattc ataatgatat aacatacact   60
ccaaggaacg cactgtccac cgcagtccac agctcatttc atatatgaac tgaatagccg  120
ctttcgttcc ttggcttgac tgttctattc atttgcttta atttttttta  170

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<210> 8732

<211> 621

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220096d06a1

<400> 8732

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cttttccctc gttgaaatga aaatgggttc ttctttgtgg actttgtgtc taattttggc   60
ttcactagcc tcttctgcat tctgtgcctt tccacggagg ccagtggatg ttccattcgg  120
cagaaactac gttcccactt gggcttttga tcacatcaaa tacttcaatg gaggttctga  180
gattcaactt catcttgaca agtacactgg tactggcttc cagtccaaag ggtcatactt  240
gtttggtcac ttcagcatga acataaagat ggttcctggc gattcagctg gcacagtcac  300

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tgcttttttat ttatcttctc aaaatgcgga gcacgatgag atagattttg agttcttggg 360
 gaacagaaca ggacaacctt acatttttgca aacaaatgtg ttcaccggag gcaaggggtga 420
 cagagagcaa agaatctttc tctgggttga tccaacanaa gcataccaca gatactctgt 480
 gctgtggaac atgtatcaaa ttgtgttcct agtggataac atcnccaata ggggtgttcaa 540
 aaacctaaag ggctngngag tgaagtccn ctttgaccaa cccatgaagt gtacaacagc 600
 ttgtggaatg ctgatgactg g 621

<210> 8733
 <211> 509
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096d08d1
 <400> 8733

gcataacacc tttgggattt catctttcat tcatttttcc tgtctgttcc taaaccagga 60
 aggttcagaa agatattaaa tactagtaac atgggttaaat agaatacagg cccatacaat 120
 cccccaaact cccccaaaa ataagataac ataatcatac tggttaacgct attctttatc 180
 caataccact tccccaaaaca aatactaaat ttcattgaga ctccacgaaa aacagaggtc 240
 cctttggaga tcacgccaac acgagagatg caaattaaaa ttgattctgt aactgttttg 300
 ggaagcatct ttcaattttc cggaacccat taggtcaaaa acagtggcag cagctcacgt 360
 cttgaaacgt ttggacaaaa gtggtgccca aacatatata tgtgggaaact taaaaaaagc 420
 ttcgtctgtt tgaaacgttt ggacaatctg atgcacgatg cccagattcc ccgcaattaa 480
 aacagggtccc tccaaatctg tctgatgat 509

<210> 8734
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096d09a1
 <400> 8734

aaaaaaaaa gggccccccc cccccccggg ggggggaatt ccccccccc cccgggggga 60
 aaaaaaccgg ggggtttttg ggggggaccc cccaaccccc ccccccgaa gagcggaaaa 120

aaaaatgggg gcccccttttt taaaaaaaaa aaaaaggggg gggccccccc ccgggggtttt 180
 tggggggggg aaaaaaatcc cccccccccc ccctttgggg gggaaaaatt tgtccccccc 240
 ccccgggggg gggccccccc cggggggggg gggcgggggg ggaaaaaaaa aaaccggggg 300
 gttttttccc cggggagtg ggggccccac gggcggccgc cccccccccc gcggggggaa 360
 ataacacccg cggggggggg gggggcaccc cccaccgggg gggggcggcc cccccctct 420
 ttttgggggg gcaaaagagc cgccccgggg gg 452

<210> 8735
 <211> 368
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096d09d1

<400> 8735

gaccgggggc cccctgggtt tatttttccc tgggccccaa aaaggaaatc ccggggggccg 60
 tttggggccc caaggttgtg ggaatttaaa aaccttttcc ccctgggaaa acccctaaaa 120
 aacttttggc caacaggccc cgggtttttt tttttttccc ccaaaaaaaaa attttttttc 180
 tctccccccg gggggcaaat tttttttttt taaaggaaaa ccaacacccg gcaggggcat 240
 tatttcccca aagggggggg ggggggaaaa cagggtaccct ttaaaaagga tacgggggag 300
 aaaagtgcc ttcaaaaaac aaaccaaaga attttttgaa attgcgcctc caaaaaaagg 360
 agggggggg 368

<210> 8736
 <211> 554
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220096d10a1

<400> 8736

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 atcctcgat catccatcgc gatatcaaag ctgccaatgt ccttattgat gatagcttcg 120
 aagcaaaggt tgctgatttt ggattggcta agttgactac tgataataat actcatgtat 180

cgactcgtgt catgggaact ttcgggtacc tagccctga atatgcatca agtggaaaat 240
 tgacagagaa gtctgacgtt ttctcatttg gggtcatgct attggaactc ataactggga 300
 agcgacctgt tgatcacaca aatgccatgg acgacagctt agtagactgg gctcgaccac 360
 ttctgactcg tggactagag gaggatggca actttggaga gttggttgat gcatttttgg 420
 agggaaacta cgatgctcaa gaactgtcaa ggatggcagc ttgtgctgct ggtagcattc 480
 gtcattctgc caagaaacgt ccaaaaatga gccaaattgg tagaatatng gaaggagatg 540
 tctcactgga tgac 554

<210> 8737
 <211> 521
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096d12a1
 <400> 8737

ggggcttcag ctgttctgct gatgaaaaga agtgttgcat tgcaaaaggg gctaccatt 60
 cttggtgtat tcaggacttt tgcagcagtt ggtgttgatc ctgccatcat ggggtgttggc 120
 cctgctgctg caattcctgt tgctgttaag gctgcaggtc tagagcttga tgatattgat 180
 ctttttgaaa taaatgagggc atttgccctc cagttcgtgt attgccgtaa caagctaggg 240
 cttgatccag aaaagatcaa tgtaaatgga ggtgcaatgg caattgggca tcctctgggt 300
 tcaacagggtg ctcgatgtgt tgcaactctg ttgcatgaaa tgaagaaacg tggcagggac 360
 tgtcgatttg gagttatata tatgtgcata ggtactggaa tgggggcagc tgctgttttt 420
 gagagtgggtg attgtgctga tgagctatgc aatgcccgga aagtggatga ctttctttta 480
 tccaaggatg ctcgcttgaa atagttactt cataactact a 521

<210> 8738
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096d12d1
 <400> 8738

tgcccgttgt gggcccaccg gaacaattcc tgccgcatcc gtctgctcgg cattcggctc 60

ccgcggctcg aggcactttt tctgccattg aagaagaacc cgtttaaccg tcggggcaag 120
 tggaacacac ccaactctta attgatggaa catttgcca tgctgtttct ggaactggtg 180
 cggatcttgt tgcgcgcaac ggatctgctt gagaagcatg gtgatcagct tgctcacttg 240
 agacttgga taatggagag ccttatgaac aagctgctaa gattgaagtt gcaatgcttg 300
 ttcgactgat tcgatactat gctggatggg cagataagat ccatgggcta acagttccag 360
 ctgatggacc atatcatgtg caaacattac atgagccact tggatgatgcc ggtcagatca 420
 ttctt 425

<210> 8739
 <211> 346
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220096e01a1
 <400> 8739

tgacgtcgat ctatggctag caatgtccca gatgcogtgc actagcagtg cagttgcaat 60
 gttacggcgc cagttcaact tactggtact gtgcaccoga caagctaaag ttgcaattgt 120
 aataattgct cctagtatta gtgctgccag gagtaatacg agtattttgc gaagttctcg 180
 gcagtatctt tctgtttata gtacgcgtag gtggattaat ggatagggcc ataaaatattc 240
 ttaaaaccac gcaacagtga aataactaag tgcaogcgcg gttcttagca atcaacaata 300
 atacgcgtgc tgggtgtaaag taatggtgac tgggtgccttt tttaaa 346

<210> 8740
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220096e01d1
 <400> 8740

agtaaaatgc acgagaaaat ttattagaaa atcacgatgg ctagctaagt ttcaaagcca 60
 agtacattct gttgtaattg caaatggaaa ttaaaaagac acggaaggag gagctgattc 120
 gatgtcatga gctattgaac cctaagaatt gatccacagg cttagccaca cagttggcaa 180
 gtgtatcacc tgcttccggt gtagatgcct cagaatacac accaacaatca tcttcagtgc 240

cagatggtcg cacaaagcac cgaccttggg ggtacttaac agattcttca tttatggctt 300
 ctttttagacc cgggggggctc acaaccacag ctattgcatt tgttgtaaca ataaccgctc 360
 tgtcagcaac tttgaccttg agctgcttgc tgggtaaadc atgataaagc tcattccatt 420
 ta 422

<210> 8741
 <211> 543
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096e02a1

<400> 8741

cagcgaaagt ctacggctcc ccatgtgcag aggcggtaca cactcacaca acccaggggc 60
 attacattaa tacacctgta gggggctgcc aaatccccgc aacagccttc aattggccta 120
 caggataata gttacaaaca agtgatttgt tatggccgct gttcgtggtc tccgccgagc 180
 taaagtgggc ccataatgtg gatgcccaac attaggatga cccaccgaca cactgtgcat 240
 ataaggcata agcacaacct taacagttaa cataaccacc cgagggttgtt acattactaa 300
 accggcagag ggctgcccac ctactggcaa cagccatcta tctgcctaca tgataatagg 360
 taaaaccacg tgatttggtg ttggcggttg tcgtgcaacc caccgagcta cagtgggcgc 420
 aacatgggca taccaaaaat gagtattggc cagcggcaaa cgggtacatat aaggcagaag 480
 cgtaacctaa aaagatacca taaccaagcg aggtttttac attagtacat cggcagtggg 540
 ctg 543

<210> 8742
 <211> 598
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220096e02d1

<400> 8742

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 actaacaata ntacctacac tgcactacta cacatacttc catatctttt ataactcata 120
 acattantan nannccgccg ggatgcgacg acgtccgatg cacacgcacg ttagctcaaa 180

tccgctagag caacagacta ctctcactgt ttttaaactct tgccgttaac ttttctcgga 240
 aagttcggag ttttcccgga aaatggaagg aggtcttctg aggataacac aaaacccccca 300
 agggatttcc cccttcatta gcacgaaaaa cacttggcaa ccacatgctg agcaacactc 360
 tttcccgtaa agaagaagca gaagaaggac aacacgcaga agccgaaacc gaacccagcc 420
 gtgagctgaa ccgaaccag actcaccaac acatcattca ctaagaaaaa cgtagcaaca 480
 acaggaacaa cacaaaggat cccaactctt ggagagcctt cacggcgaag caattgctaa 540
 agggcgccat cggctcggct tggagctgca ccaccactat cactaatcac agcaatga 598

<210> 8743
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096e04a1
 <400> 8743

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 ccgacgggca agatttcgag acaatggagt gattagcaac taactgatcg accagcgtgt 120
 aagtgggggg gaatacgttg accctaagct gaaagccacc ggttacaaag ccaacctgac 180
 catgcaaacc gtagagcata gtgctactac ttgggcgcca atctccgcag taacaactgg 240
 cccagcagct ggctacgaga gctgtgccat ccagaaggct caaagcgag ttggcctatg 300
 cgtacgaagg gctactgcaa gatattgcta gctaggtggc tagccatttc gggaagaagt 360
 gcgtagcccg ccaaggcata aaattaacag gtggacgctg agggggattg ttagcggtgt 420
 aagccccaag tgagggggcc ggt 443

<210> 8744
 <211> 59
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096e04d1
 <400> 8744

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<210> 8745
 <211> 577
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220096e05a1

<400> 8745

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 ggaacgaagt ggcggaatgg taacgggggc gcatgaaagg aacgaacttg ttagagttag 120
 acacggttct gacagtgggt ctaaaccctt gaagaattta aatggtcaga tttgtcaaat 180
 atgtggtgac accattggat taacggctac tggtgacctc tttgttgctt gtcatgagtg 240
 tggcttccca ctttgtcatt cttgttacga gtatgagctg aaaaatgtga gccaatcttg 300
 tccccagtcg aagactacat tcacaagtcg ccaagagggt gctgaagtgg agggagatga 360
 tgatgacgaa gacgatgctg atgatctaga taatgggatc aactatggcc aaggaaacaa 420
 ttccaagtcg gggatgctgt gggaagaaga tgctgacctc tcttcatctt ctggacatga 480
 ttctcatata ccaaaccnc atctagtana cgggcaaccg atgtctggtg agtttccatg 540
 tgctacttct gatgctcaat ctatgcaaac tacatca 577

<210> 8746
 <211> 508
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096e08a1

<400> 8746

attgaatcca acaggcgagc tcttagggag ctgcttttca ctgctcctgg tgttcttcaa 60
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 ccctttgtga atgtcttgaa ggaagctggt gtgcttcttg gcatcaaggt tgacaagggc 180
 acagtcgagc ttgctggaac taatggagaa accaccactc agggctctaga tggccttggt 240
 cagcgttggt ccaagtacta cgaagctggt gcacgttttg ccaaattggcg tgcagtgctg 300
 aagattggtc ccaacgagcc atctgagctg tctatccatg agaacgccta tggcttggtc 360
 agatacgctg tcatatgcca ggagaatggc ctggttccca ttgttgagcc tgagatcctt 420

gttgatggac ctcatgacat tcacaagtgt gccgccgtca ccgagcgtgt ccttgcagca 480
tgctacaagg ctttgaatga tcaccatg 508

<210> 8747
<211> 539
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220096e08d1

<400> 8747

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taattctcct ttttatatct tacatcatat ctcttccctc tatnttaaaa ttaattatcn 120
nnnccgcgct cgcgtgtccc gctatacaaa ntaactacnn cccggccgcc cttttttttt 180
ttctttaatc ccactaaaca acacaaagcc tcattcacgg ggggggggtg gctttcaaga 240
aaacaaaatt acattccctt ccctgttgca caggattgac caaattcact gatatacata 300
aattgtcatt aaatgaaccc gggggaaacc acaaaggaaa attccaaccg atcaattctg 360
ggaaaagtca aaccacatta ttacttatta acaacaaatt cggtttggtg acccataata 420
cagattccta ctogaattat atttttaata caatcacaac tcttaatgag caacctctgc 480
agatcgtatc atgtaggac tctgaggcac catcagcaag cggtgacgta cccttgtag 539

<210> 8748
<211> 569
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220096e10a1

<400> 8748

gaagaagtat cactcatata atactctgta tcatttcatt tcgataatca tccatagcta 60
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cttgtgcaaa agcgggtctc atctcccggt cttggtttgc cagcaatggg taaggtggga 180
agagtgagtt gtcctatgga ggaaaaacct tattctgtga aggaaagcag ctctagcatg 240
ttggggatgg gggcatctct gatggcagct gccagcgtg cagccatgtc aggcccagcc 300

002220096e08d1

atggccttgg tagatgagag actgagcact gaaggaaccg gacttccctt tggcctcagc 360
 aacaatcttc ttggttgat ccttttcggc gtctttggtc ttatctggac tctctatctt 420
 gtctacactt ccactcttga agaggatgaa gagtcaggac tgtcccttta aatatacctga 480
 gttgtaaggt gggatgatgat gaatgatgga ttgtataaat ngcaatgagt cccctcctc 540
 ttctgtgtag ttaaacaat tctgtgctt 569

<210> 8749
 <211> 516
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220096e11a1

<400> 8749
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 gaaggatggg ggactgatga gaaaactgtc atagtaatat tgggtcatag aactgtttat 120
 cagaggcagc aaatcagaag agtctatgag gaaatcttcc aggaggatct tgtgaaacgc 180
 ctagagtctg agatcaaagg agactttgag aaagccgtgt accgatggat actagaacct 240
 gcagatcgtg atgctgtttt ggccaatgtt gccatcaaga atggcaaaaa ctacaatgtc 300
 attgtggaaa tcgccactat cctctccccg gaagagcttt tggccgtgag acgtgcttat 360
 ctcaaccgct acaagcactc cttggaagaa gatgttgag ctcatacctc tggccatcta 420
 cgccagctnt tagtgggggtt ggtgacctca tataggtatg ttggtgatga gatncaatcc 480
 aaattgcaca aactgaggct gaaatcttca tgatgc 516

<210> 8750
 <211> 501
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096f02a1

<400> 8750
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 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 120
 ccaaaaaaaaa aaccctttg tttattgggg ggagggggcc cccaaaagga ggggtttttt 180

tcccaaggaa acaaagcccc cgcaaaatct cctaacggg ggtttactta taaccccccc 240
 ctgggtttacg tttccccaaa agggggggaa ggggaagaag tttcccccca tttggggccc 300
 gaaaattttc ccctgttaag gttaccccg ggattttttg gcctcatagg attttggggg 360
 acttttaagt tttggggggg aaatagggct ttgggggcct aaaatagggg gcccgtaaaa 420
 atgggtttttt gggggaggag gggccttcca aaaaatgggg ggggggttaa ttcccaggtt 480
 ttttttccca accggggggc a 501

<210> 8751
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096f02d1
 <400> 8751

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 aggggaaaac aacattgttt aaggccctc catgactaaa gaataattct caggattttt 120
 ttttataaaa attaaagggc aacttaaagg cttgttttga gagcttaatc attgtccaag 180
 ggattaggcc ccttaaaagt cctttcccct ttgttgcttc ccaggggggc actcctttgg 240
 tttccaacgt ttccaaagat tttgatccc ttcttttcca actttttttt tttaggtgat 300
 ttgttttcaa aagattactt accaaagtcc tcaaattgggt ccctgagaat taacttttcc 360
 catgggttga aaccaaccct ctttaaattc ttgg 394

<210> 8752
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096f03a1
 <400> 8752

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 gggggggggg ggggggtac acgttaaaaa ttacataggg gaggagttag aggataccgg 120
 gacatagaga taccctaaac actgagcaga gagtggtaaa gtttgtgcta atagcaaata 180
 tgggggttctg atatagtgtc gagtaaatgg cgccatagga tagatgcagg aaaagaaatg 240

ctattcggag gtcacacaga gtaaagctgc gtggaaaagg aagtgggtacc cggaagcaaa 300
 ttttgcaatc taagaggcaa tatgaacccc tggcgaagca ttagcacgtt ctcattggta 360
 ggcatgccgg aatgatatgc gaaaaagcaa ataggagtgt ctaaaaggaa gaggaggaaa 420
 atgctaaaac gaaggacccc gcggtatagc acgtggcttg tatgaatata atttgctggc 480
 aaa 483

<210> 8753
 <211> 450
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096f03d1

<400> 8753

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 tctggaactc tatttaacat actagtagca acaaccttaa caagatcatt acctgcaatg 120
 aaactacaaa gtattcctgc aaagaaatta aacacaagct ttcacataaa gaaactaacg 180
 aatacaatcc aagagtagaa actcagggcc ttgcccaaca aaatagactc atacttcagt 240
 ctaagcacca ctatagatta acaaaatctc actattctct taacaatcac agataccaag 300
 tctcaaaatc aacttctgct tttgcgtcgt tccctaaggc catttccatt agcatatggg 360
 acctcctcac gccacgata aggaggtgac ctggtgtagc tacgtccacg aggtgacaaa 420
 ctacggcgcc tatgggaccg cccacgagga 450

<210> 8754
 <211> 570
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096f04a1

<400> 8754

ttgcgtggct actcgttga gtaccgcctg cttggggggg gggggggggg gaaaactatt 60
 cgcagacgta ccaatagaga tgggtgtgatg cgatacaaag aatgtaatag agggagggcg 120
 ggaagaagat ggggacaact actggaaaaa ctacggccta ataaaatagg atggcacgag 180
 ttggttaagg tgcttgggtga gataaaccgc gcattggggg gggttacaata aaaccataac 240

aacacctgtg gcactaccga accacgccga attaacgcgt agccttatac taatagggtg 300
 tggagtacta ggcaggtgaa agagttgcat tggcgctagc gcccccaatg ggctaataat 360
 tactataagt atgctaatac ggggcaagaa caataggcca ggtgcagacg tgcggcgcg 420
 gcacctgagt aacgatacta ttaaaccaat aatgcgcaca aatgggttgcg gatcacgaac 480
 tgctgggtta ggcgtgattg ctgtttatta acgtaagtga ggcgacagtt tggccgttgt 540
 gctatagcca cggttgggtg gttacgcaaa 570

<210> 8755
 <211> 138
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096f04d1
 <400> 8755

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 ataataaaga tattaaatac ttgtaacact ggataaattt aatacaggcc cattacaatt 120
 ccctaaaact ataacccc 138

<210> 8756
 <211> 586
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220096f05a1
 <400> 8756

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 tacgttactc tttaaatacg caccacatct tcacgtgcct ctcggttctt cagtccaaac 120
 aatggccatg gttgagctct ggtggattac gtgctttctc taactactgt tttccacact 180
 taacgaacca gaacacagtg agaaagacat aatggcggtg gagtacacat gctgctcaac 240
 ggcctttctc gttcacatac tggtcacgtg gctgctcgtg cttttcgagg gcctcatgtc 300
 gggcctcacc ttgggcctca tgtcgtcag cctcggtgat cttgaagttc ttgctaagtc 360
 tgggtactct caggatcgta aacacgctga gaagatatta ccagttgtca aaaaccaaca 420

tttattgcta tgtactctgc taatttgcaa tgctgcagcc atggagacac ttcctatctt 480
tcttgatggc ctngttactg catggngcgc tatectaatt tctgtgacat taattctctt 540
ggttggtgag attatacccc aatcagtttg gtctcggtat ggttttg 586

<210>	8757
<211>	538
<212>	DNA
<213>	Glycine max

<400>	8757
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<210>	8758
<211>	562
<212>	DNA
<213>	Glycine max

<400> 8758

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 cagagtttgc aacagatggt tcgaggaaga tttgttatag atttgatcat tcttactatt 420
 tttttttaat caaacacgaa cagaaaaatc tacggttatg gcaagaagtt gaattcgcac 480
 ttgcgaatga ttcttttggg ccacagacca cagtgtacaa aagcattgga gttctatggt 540
 gtgaatttat gtaacttacg ag 562

<210> 8759
 <211> 354
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096f07d1

<400> 8759

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 accccccctt gggggcaaac ctcggtgttc ataccacctt aaaaatatat ccgtctgttt 180
 aagccccctt gtttttgtga ggaaaagagg aattttgggg gttgatttgg aatttttaat 240
 ttaaaccaag ggattttgcg gccttaatgt ctttaccctt cgggggctat ccatgggggc 300
 tcttcattgg tcttcacctt acccagggcg aggccttggg ggtttccttt tttc 354

<210> 8760
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220096f08a1

<400> 8760

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 atgaagtgta tgacagcttt gatgcaatgg gattgcaaga gaatcttctg cgaggcatat 120
 atgcttatgg ttttgagagg ctttctgcta tacagcaaag gggaattggt cttttctgca 180
 aaggactgga tgtgattcaa caggctcagt ctggaacagg aaagacagca acattttggt 240
 ctggaatttt gcagcagctt gattatggat tggttcagtg ccaggctttg gttttggcac 300

caacaagggg gctagcacag cagatcgaga aagttatgcg agctcttggt gattacttgg 360
gagttaaggt ccatgcttgt gttgggtggga caagtgttcg tgaggatcag cgcattctcc 420
aggctggtgt ccatactngt gttggcactc ctgggcgagt gtttgacatg ctgcgagggc 480
a 481

<210> 8761
<211> 466
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220096f09a1
<400> 8761

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accacctgct caacgcggag caccacttct ccgccttcaa gacaaagttc ggcaagacct 180
acgccacgca ggaggagcac gaccaccgct tccgtatctt caagaacaac ttgctccgcg 240
ccaagtcaca ccagaaattg gatccctccg ccgtccacgg cgtcaccagg ttctccgac 300
tcaactccggc ggagtttcgc cgccagttcc tcggcctgaa gccgctccgc cttccctctg 360
acgctcagaa ggctccgac ctaccgacca acgacctccc taccgatttc gattggcgcg 420
aacatggagc cgttactgga gtaaaaaatc aggggttcgtg cggatc 466

<210> 8762
<211> 515
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220096f10a1
<400> 8762

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gtagcttttc taacaacaaa gggtgtttta tctgatgaca ctgtgccaat tcccgcgaac 120
aaagcacaat taggtgaatg gtataatact aatgtggggc ctttagatca aagaaagagc 180
accgtggacc cagcattggt gactgctgaa gaaggcgcta aggttgtaaa ggtgatgcaa 240
gatggcagtg gggaattcaa gaccatcact gatgccatta aaagtatacc tagtggggaac 300

actaagcgtg taattattta cattggagct ggaaattata atgagaaaat caaaattgag 360
aagacaaagc cttttgtcac cttgtatggg gtaccagaga aaatgccaaa cttgactttt 420
gggggcactg cacaacaata tggcacttgt gatagtgcta cattgattgt tgaatcagat 480
tattttgtgg cagctaacat catgatctcg acact 515

<210> 8763
<211> 529
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220096f11a1

<400> 8763

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cccacattta ggaggattat cagaaatggg tcaacagaga tggtctcagg gttgccatat 120
atattattccc ttctgaactg cttgatctgc atgtgggtatg gcacacctct gatatctgct 180
gataatttgt tggttacaac tgtaattca attggagcag tctttcagtt tgtgtacaca 240
atcatcttcc tgatgtatgc tgagaaagca aagaagggtga gaatgggttg attattgctg 300
gcagttcttg gcatgtttgc aatcgtattg gttgggagct tgcagataga tgacgttata 360
atgcgtcggg tctttgtggg gttcttgagc tgcgcgtctc tcatttcaat gtttgccctc 420
ccattgctta taattaaatt ggtcattcag acaaagagtg ttgaattcat gccgttttat 480
ctctcacttt ccacctttct aatgagcacc tctttcttac tttatggat 529

<210> 8764
<211> 397
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220096f12a1

<400> 8764

aagcaccttt cttccaaca gaagaagagc tattttggct tctacctaca caacaagctg 60
ggaggccggg gaaatgcoat agccatagcc atagacagag ttataccagt tattgacatc 120
aatggagttg agccttgga ccttccaaca cttgctggag agctatgccg tggggacacg 180
gagcattgga tcctctttcc gcccgacaa gacagggaaa ccaggggagg cagaccacg 240

agaaccacag gtcgtgggta tcggaaggct acaggaactc cctgctatgt ttactcttct 300
 cacaacaaag tcattgggggt gaagaaaccc atgggtctct acaaaggaaa tgcacctatg 360
 ggaacaaaaa cccaatggaa gaagaatgaa tacagag 397

<210> 8765
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096g01a1
 <400> 8765

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 gggcaggagg gcgtatggaa cggggggccaa tgggatgagt ggagccgaat ggtacctacc 120
 aggtacgcgc actagagcct gaggaagag aacgagaaaa gggagggaca ctaacagacg 180
 ctaaaagaga cagctgccta atcgtagcgg ggggtagggg ttggtgtgac aatagtgggt 240
 taagattagt tgcttgacca atacaggtag gcatagttag gtcggcttaa ggtttaataa 300
 aacaacttaa tgcagtcatt ggcgtagata agttgaccac cttatttcga gcgagcaaca 360
 ccagtgggtg ttgggtttat ggtgggccag ggtacatag agtgggtact aggctagaac 420
 tacttgatt atgcgagatg cccgtaacaa taatattacg gcgccta 467

<210> 8766
 <211> 351
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220096g01d1
 <400> 8766

ggggaaaacc gggccccaac ccccccaatt tttttttt acccgggggc acctttgaaa 60
 accccccccc cccaggggg gtgtaaaaaa aaaaaacccc ccccccccc ttataaaaaa 120
 aaaccctttt tgggggcccc cattttttgg ccctttacaa aaacccttt tttttttctc 180
 cttccccccc ccccaaaaa accccccagg gggggcccc cccgggagaa acaaaaattg 240
 ccccctttcc ccccccttga aaaaaaac ttttttaaag ggtctaagg gggggggggg 300
 gacccccccg ggaccccta aatccacacc ctaagggggc taaaaacccc c 351

002220-032200

<210> 8767
<211> 564
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220096g02a1

<400> 8767

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taacgctgct aggctaaaat taacggcaga ggattgggta aatgggtagg tcaatcaatc 180
aatgttaaga aaaacaacat aacaaaaagt aaggaaaaaa aagcccgcaa agtacatgtc 240
cagctatagg ctgccttacc tgtttagaaa acggagctta ttcacgagc gactacgaag 300
ctcgtactgg gtgggtttcg ggcactaagt taaagggtggc ggctgcaacc tttctactac 360
gtaacgagtt ataccctact aaaggttgta caaagatgaa aagtagtgta cggggcggtc 420
caagcgcggc acatggctat attgagtatg ggccgcgtag ctgggtgtgg ctgggtgatgc 480
tcttcccagt gcccgcaggg cegttggcga caccctggcg ggctgctgt ggcgcgctta 540
cggaaaaggg gggtaggcaa gccc 564

<210> 8768
<211> 596
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220096g03a1

<400> 8768

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gctagatgtg gaggaatcac agggatacgg gggcgggaga taaaagaga tggacactac 120
gcgacggaga taatggcaac gaaaagcccc ggaattgtat tttgggagga ggtggcaggg 180
ggatagtagc cggtgaaatg ccagaagagc tcaaagcgta gagataagag gggcttaaata 240
tgaggaggc gggccaggta gcagatgaga ctagtagata agactagata cctgggttat 300
agagatgagt taaaacttgg ccttggtaat cactggtaag tagacggaga tggatagtag 360
ggatgcaaga aaggttggta tgccggcaac cagggcaatg tgtagaagga cggggtggaa 420

aaataaagct gccggcgggg ccagtaccaa cacggcacgt aggatttaat agcaaaataa 480
 tgctgcatag acagccgtgc gtactactag aagtggctat atagaaaaca ttaagggcca 540
 gctagtgggc catggtagcc gtacactagc atgtggtgaa gcaggcagta ataagt 596

<210> 8769
 <211> 355
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220096g03d1
 <400> 8769

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 tatacgtacc gactggattt tcacaaaatt aagacctcac ctatgctgag gttagccctc 180
 taggaagaga ttcattgcct ggatcagggtg aaacaaacct ttgaccagct tttaaaacag 240
 ctgaatggaa ggctgttggg ttgtcaacga acgcaaagtg cccaccctga ggaatcctga 300
 tgatgtccca tggaaccttc atatgcttgc gagctttttg gacaccttga taatt 355

<210> 8770
 <211> 520
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220096g04a1
 <400> 8770

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 gaactaatcg ggtgtgagga ggagaaaagc cgggataaat cacgggagtg caaaggggtg 120
 aacagtgaaa agatagacac tatacggggg ggggggttaaa tgaaacaaaa atactaaatg 180
 gggccagtat gtgtatcagc gcgacggcga tggcgatata agaagaaggg tgaataatag 240
 aaagaagcat cacgtgggag cgcataacac agagcttggc gacaaggaag ctagtactga 300
 caatggccgg actactggcg caaccagcca tatgcgttta aaatatagat gcgcgcctag 360
 gacaataacg gttgccgcag gggccaggat ataataacca gcggcgtgag atacggttcc 420
 cattatacta gttgtgcggg cttgttataa aattacaggg gcaacccag gcaataaccg 480

tagacacacc tggcgaaagc gtcaaaattc taagtggaac

520

<210> 8771
<211> 376
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220096g04d1

<400> 8771

aatcgcaaaa ataaacacaa agcctcattc acagcacggt ggtgtctttc aagaaaacaa 60
agttacattc ccttccctgt tgcacagggt tgaccaaata cactgaatta ctaaaattga 120
cataaaagga aactaggaa aacaaaaagc aaaattccaa acgattattc tgggaagagt 180
caaaccacaa taatacttat caacaagaaa ttcgggtgtt gtaccataa taccgattcc 240
tactcgact agtctcttca aacaacacca acttcgattg atcagtagct gtagttcgaa 300
acatggaggc tctctgaggc accatcagca agctgtgagt tacccttgta gggtcccgaa 360
gttgccctctg agttag 376

<210> 8772
<211> 517
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220096g05a1

<400> 8772

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ttcacatccc aacagcacat gaaacatcaa actccttttag gaaatccata ttcttgagca 120
accaagtggc ttcaccagtt tcattgggtt ttctcagggg cagttcaaaa tccaagcttt 180
taactgcctt gtcaccccct ccattgacag aatccagtaa ccaacctgag gctgagccag 240
aatttgaaag tcatgcagag aaatttgact ggtactctca gtggtaccct ttgatgccaa 300
tttgtgacct tgacaagagg aagccacatg ggaagagggg gttgggaatt gatgtggttg 360
tgtggtggga taggaatgag ggggtgcttg caggttcatt atgatgcttg tcctcataga 420
ttaccacctt tgtctgatgg aaggattgat caatggggca tgttgagtg tgtgtaccat 480
ggttggtggt caatggcaaa ggagaatgcc agctcat 517

0933143-032200

<210> 8773
 <211> 564
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220096g07a1

<400> 8773

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tctacgcaaa gcccttggtt ttgcatagag ctacttaaaa tgtcggaggg aaatgcggag 120
agaggaaaga gaattgccat tattggtgtc tcaaccttat tgttggcggc gatggctgtg 180
gctgccacag ttggtgtcaa tgtagtgag aatggttcca acaatgagga cacaaaaatt 240
gcttcttctg taaaagccgt ccaaaccctt tgccatccca caaattataa gaaagaatgt 300
gaggaaagcc tcatagccag ggctggaaat accactgata caaaagaact tatcaaaatt 360
gtcttcaaca tcaccattac aaaaattggc gataaactca aaaaaactaa tcttttgcac 420
gagggtgagg aggatcccag agccaagatg gcacttgaca catgcaagca actcatggat 480
ctctctattg aggagctaac aaggtcactt gatgggataa gtgagtctga cctgaaaata 540
tcgcaatcct tatgaattaa aagt 564
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<210> 8774
 <211> 575
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220096g07d1

<400> 8774

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ctcatgtctt actaaatccc tttatcttca ttttaaataa tatttacttt acnnnnnccg 120
ccctcacagg ccatcnaegn nnnnnnnntc ttctgcgcc gccctttttt ttttaattttc 180
aatttgacta atcttttaaat gaaaaccatc acgggcctat tgtgtgcata ctatctacta 240
caaacaatcc taaacttggg accccatttc ccctaggcc gtttcttggg caactctcag 300
gggttagcac ctaaaccatc cattgcatga tggcttacac taacaatagc tagcaataca 360
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cgtctgacct gctttaccaa ttaaaaccac tccacaatat atatggctct aatctatcat 420
 tatggatgat aaatatggct tgaactaaaa cacaacagga taggacagca cttgaataaa 480
 tcaaactatt ggcaatttcc aattatcaag ttattagcca catgcaacgg ggtcaaaaat 540
 accctggcga gcagcgggaa cttaaaaaga catcc 575

<210> 8775
 <211> 461
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220096g08a1
 <400> 8775

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 caacagcagc cgatactcac tcgccagcct catgctgggc gatgtcggtt tcaagaaggt 180
 ggaagcagaa gaagcagaag aagcagaagc cgaagccgaa gcgagctgtg agctgagccg 240
 aagccggact ctccaagaca tcattcgcgga agaaaaacct agcaacagca gcaacaacac 300
 gaaggatcgc aactcttgga gagccttcac ggcgaagctt cggctcaagc gcgccatcng 360
 ctcggttgg tctccacca ccactatcac taatcacagc aatgatgata gaaatttacc 420
 taatataccc gaaactcgcc atgactcgga cgagttgact c 461

<210> 8776
 <211> 503
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220096g08d1
 <400> 8776

ccagggaaga aatttctcct acaaactgat ttttggtgaa gttgctatta caaatatatt 60
 cagtaaattc cactttactg aaacaatata catatgattt cattcaatta tgaaatttaa 120
 ttagtaaaaa aaaatattaa aatacatata gacaggaata gcacaaaatt aagacctaac 180
 ctatgcagag gttagccctt taggaagaga ttcattgtct ggatcaggtg taagaaacct 240
 tcgacaagca taaaaaacag ctgaatggaa ggcagttggg ttgtcaatga acgcaaagtg 300

cccaccctga ggaatcctga tgatttcgca tggaaccttc atatgcttgc gagcttcttg 360
 ggcaccttga taattcatcc agtcttggaa accatacatg aaagtgggtgg gcaccttcca 420
 ctctgaggca ctgagaagaa ggggcatcct agcaaatgct tcaaatgaaa aaatatattt 480
 taagcacagc tcttcactag ctt 503

<210> 8777
 <211> 499
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096g09d1

<400> 8777
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 tctggaactc tatttaacat actagtagca acaaccttaa caagatcatt acctgcaatg 120
 aaactacaag tattctgcaa ataaattaaa cacaagcttt gacataaaga aactaacgaa 180
 tacaatccaa gagtagaaac tcagggcctt gcccaacaaa atagactcat acttcagtct 240
 aagcaccact atagattaac aaaatctcac tattctctta acaatcacag ataccaagtc 300
 tcaaaatcaa cttctgcttc tgcgtcgttc cctaaggcca tttccattag catatgggac 360
 ctctcacgc ccacgataag gaggtgacct gctgtagcta cgtccacgag gtgacaaact 420
 acggcgcccta ggggaccgcc cagaggact gtaactcctt cgcccataac ttgggctcct 480
 acggaatctg ggtggacta 499

<210> 8778
 <211> 575
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096g11a1

<400> 8778
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 cttaggccaa agaggtttga aaggcttctt agagcgcaag gttttcatgg tgaccatac 180
 tcactttctc atcacaactc caaccaaacc cttttgcaac aacaccagct caattcccaa 240

ccttttcttc tatccgatga tgttgctcct cgtgtatcct ccttggtaca tcacactatc 300
gacaaatatg gcaagaaatc cttcttttgg gaaggtagaa caccaaaggt gatcattacg 360
gacccaaatc aactcaaaga agtcttcaac aacattcatg acttccagaa gccaaagttt 420
agtgacaatg tcaagttctt gtctgctggc ctgttaaatt atgaggggtga caagtgggct 480
aaacatcgaa gaattatgaa cccagcattt cactcagaaa aattgaaaaa tatgctacca 540
gcattttctc aaagctgcca tgatatgatt agcat 575

<210> 8779
<211> 481
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220096g12a1
<400> 8779

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tatgcctaac cctaaggtct tcttcgacat gaccatcggc ggtcaatctg ctggccgcat 120
cgtgatggag ctctacgccg acgtcactcc ccgcaccgcc gagaacttcc gcgcgctttg 180
caccggcgag aagggcgtag ggcggagcgg caagccctc cactacaagg gctcgtcctt 240
ccaccgctg atccccgagtt tcatgtgtca gggcggcgac ttcaccgccg gaaacggaac 300
cggcggcgag tcgatttatg gcgccaagtt cgccgacgag aacttcgtga agaagcacac 360
cggcggcgag atcctctcca tggcgaacgc cggcggcgga accaacggat ctgagttctt 420
catttgacag gagaagacag agtgggtcga cggaaagcat gtcgtgttcg gacaggtcat 480
c 481

<210> 8780
<211> 347
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220096g12d1
<400> 8780

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cttctaaaaa caaactccat tcaactcatt tttgaccccc ccccccccc ccccttatt 120

ctttttttta aaaggaaaagg gggaggggttt taaaaagatt ttcttaacac cacaatcccc 180
 ttaagggcgg cccgggaaaa aaaaaaaaaa aaaaaaagg gcaaaccccc ccccaaagaa 240
 ataaccctaa ttcagagatt aaagccccgg gtcaacctcg cttaaaaaag ttccccccaa 300
 tgggcaaaaa caacaggctt ggagggcctg cccaacagg aaccccc 347

<210> 8781
 <211> 529
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096h01a1

<400> 8781
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 ggaaaagctg gagcctaaag caaccggggt tgcgggtaaa atgaccatag gttatacctt 180
 gcaatggata gcaatggcag ggaatattgc atacgtatt aaggggacca gtatagcgcg 240
 ctaaagcgct gatgttgtgg gcaatgggac cagcacaata gaaggcgcaa aataattgtt 300
 gggcccccca aaaaaccggg cctgttgga ttgcctatgc gcaaactact ataactaggg 360
 ctaaaagtaa cacttgtttg gaagtggggt gtagttggag aaagcccagg cgcaatactt 420
 ataagctgta aaacgttgtt gataaaccaa gtaatgctgt taaggcccct aaggccggtt 480
 attgcaaaat tgccaattta gttgggaaac cttggccgag aacagtgat 529

<210> 8782
 <211> 131
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096h01d1

<400> 8782
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 aatatatata tatatatata tatatatata tatatatata tatataatat gtgaattatt 120
 ttactatct g 131

<210> 8783
 <211> 574
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096h02a1

<400> 8783

ttgcgtggta catcgtttagc agtactcacc tgcttggggg gggggggggg cacttatgaa 60
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 ataaaaaaca aggagataga cagtaaataa agctgtgggg tggcttatac gaacaacgaa 180
 tctgctaaac gaagtagggc attagagttg gacagagcac cgagtcaaaa caaacggcg 240
 cgccaagtta ggtgagctgt ggctcccagg ggctaactgc atagggtgga atatgtgggt 300
 gtaccaggt cccgacgcag gtgaccagta gagtttagcat attaggcccc tataaattgc 360
 acgttggccg caagcatgta ataactgggc cgaacacgag gggggccggt ggctcgagct 420
 tgaacggact gtcaagagag gtcgctgggc taatggtgac tgtggcaaatt atttgtcggc 480
 cgcgagagat atcgattgag caaccggtag ataaataatg taggatggag gacacggaac 540
 tagcgtaaag ggcacaaggc aggagtcgag cgga 574

<210> 8784
 <211> 352
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220096h02d1

<400> 8784

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 attcaaaaact tttaaagggt aagaacggac tggcttagct ctgggaatca gaactaaaaa 120
 atttttggcc ggggccttat accaagacta ttggctaac cattgcctta ttgggcccac 180
 ctaaaacccc gcctccaaaa ctcatgtgtc aaactcgggg gggctctccg ggtttttccc 240
 cttgaaaact tttgtagggc tcaacagggg gacgggagtt agctccagca tacactgggt 300
 tcgcaccaag ctctttctta atttttaaga gctgggtttt ttttacaaga cc 352

<210> 8785
 <211> 440

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<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220096h03a1

<400>      8785

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gggggggggg gcgggggggg ggggggagcc ggggcggggc cgctgcccgg taggcttgtc   120
ggggaagacg ataatatcgg tttgtgttac agcaaaagtg aggtgggctg ctaccataac   180
cagcaactaa ccttggtata caagatctgt cctagcaaag tcaggtagtt aaatacgcat   240
gcaagcaatg tgtccacgcg aaaccaccta gaaagaatga gacgacaaca cattcgcaag   300
cagtccatga tcaactagtt aagccagata cgaggcaaca tctgacatta agtcctccaa   360
gtatcaacag cacagtgtcg ccggatggca atgctcggtc tgaattgagt gcaaagatag   420
tcacaatcag ccagtagccc                                     440

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<210>	8786	
<211>	545	
<212>	DNA	
<213>	Glycine max	
<223>	unsure at all n locations	
<223>	Clone ID: jC-gmf102220096h03d1	
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aaatggtaat	agtagaacaa	taaaagggtcc aaacgcccta acaatgggtct aacattaaag 180
ggaaaaaaca	caaagaaaa	acaatcactg tttggaaaac cggacttatt ttcgcaagga 240
cataataaag	acacttaaga	aaactactct tcttcactct cctctttcca gcacttcaaa 300
gttgatctag	gtgaaccaca	gtcacaagtc ttggcaaatt tttggtagac aagagaacca 360
cccatgccaa	gcccttcgtg	gctcctcttt tcgcgacagt atcccttaac atccagaaaa 420
cacgtttgat	caaacaactt	gcttgcacca tccacatgaa ctgcaacaga gaactcagtt 480
gggagaaaac	atgccaatat	ccttctaacc attttgttca gattcaccac ttttgagtca 540
tacc		545

0953113"032200

<210> 8787
<211> 481
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220096h04a1

<400> 8787

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taaggcaaaa actgggggagc agagagaact aaaagagaac ataagttaat gtgagaagct 180
atggggttgt gagagagaaa agcgcgggta aggaggtgtc tagcgatatg aggctgctga 240
agatagcgat gccaatatag aatgctagca ggcctgtgta aaaactagcg gaggaaggat 300
tggaaccaagt ggcaaacaag tgatgcggaa ttttacgttg caatacagct aatgcaccgc 360
tatgacaaat acggagtgtg cgcggccttc tgataaaaac aatagctttg gtacgcaggc 420
cagatttggg gccgcagggtg cgacgtagta ggttggtttt aatgcgcatt aaaagcagcc 480
a 481

<210> 8788
<211> 308
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220096h04d1

<400> 8788

aattgcttgt ctgttctttt tcttttttta atggttgaca aacaaaattt ataaaaacct 60
ctccaaatgg caacaaatcc cggggccgtg gtttttaagg gcccaaaaaa aaacacccaa 120
cttgggcccc ctttacaccc ggggaatagg aacaaaaccc gatgacccaa cagaaaaccc 180
ccggttcttt ttggggggga aaaaaccccg ggagaaggag ggcccatcc agaccccggg 240
gaaaaacttg ggaagggggg cccctcccg aaaacacctg cgggggcgaa ataaaacaac 300
accccggtt 308

<210> 8789
<211> 545
<212> DNA

09531113.032200

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220096h06a1

<400> 8789

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cactgtagga gaatacgtca ccgaaactgt gtcgttcgga gccgggtcgg ttaatagggt 180
cgcaatcggg tgcgggcatg ataatagaggg tttattcggt ggggtccgctg ggcttcttgg 240
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tttagtggat cgcgactcgg gaaaatcgtc cacgctcgag ttcaactcac ctcgaccggg 360
tgactcggtc gttgcaccgt tgttgaagaa tcagaagggt aacactttct actacgtgga 420
gtcaccgga gttagcgtcg gcgngaaat cgtgaccgtt ccgccggaga cntttgccgt 480
tgatcaatcc ggcgccggag gtgtgattgt ggattctgga accgcgataa ctcggttgcg 540
gactc 545

<210> 8790

<211> 343

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220096h07a1

<400> 8790

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taacgttttt gtgtttgaac gttaatgctt gatgacgtct gagggaagca aatttgga 120
tattaatagc caaccatttt tgcatcgaga actacaatca atggcgtctg cactacctgg 180
cgacgaataa acgccacttg tgggcgatat ttcgggcctt gaagggtca agagccacca 240
caccagggat gttcatattc tgagcttggc ctttctcttg gtctttctcg ccttcggcgc 300
cgctcagaat ttgcagagca ctctcaacac tgaggatgac ttg 343

<210> 8791

<211> 406

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220096h09d1

<400> 8791

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cccccaactt ttgaatccct ttcccgaggg gggggggggc caaaaaaatt ttacccccaa  180
aataaccccc agtttttttg ggacaaaaaa aatcccctgg aaaaaaaagg cctcacctaa  240
aacttggtta gccccccggg aagggggggac cctggcccaa aacacatact ggggggggatt  300
aaaacaagtt cctgggggatt ttgaattacc caccaggggt ggtggtttta cagtcccggg  360
acccaacaa cctttggttg cctccaaaaa accaaathtt gaaggg                    406

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<210> 8792

<211> 583

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220096h10a1

<400> 8792

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ggcgcttagg gcagcaatcg ctgaggccat cgacgtcgct caagtccatc tatccaattt  120
ccgatcacca ttatggaatg gatcacgagc gttacgtttc taccctcgcc accaagggag  180
ttggtcacct cgttcgtaag ggcactggtg gacgatcctc cgtcagtggc attattgcta  240
cagtatttgg ggcaactgga ttcttaggtc gttatggttg ccaacaactt gctaaaatgg  300
gatctcaagt cctagttcct ttccgaggct ctgaagataa tccccgtcat ctcaaattga  360
tggggggattt gggacagatt gtacccatga aatacaatcc aagggatgaa agttcagtaa  420
aagctgtgat ggctaaggcc aatgttggtt tcaaccttat tggaagggat tatgagacaa  480
gaaactacag cnttgaagaa gtgcactatc acatggctga gcaactagca nagatttcca  540
cagagcatgg tggatcctg agatttattc aaagtctctg gtt                    583

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<210> 8793

<211> 572

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220096h11a1

<400> 8793

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accagagcca gtggttgata agcaagggaa ccctttggag ccaggagtag ggtactacgt 180
gtggccactt tgggctgatg aaggaggcct cacactaggc caaacaagga acaagacatg 240
ccctctttat gttatccgtg acccttcatt cattggcacc ccagtttcat tcttagcacc 300
aggccttgac catgttccaa cactcactga tctaaccatt gatttccctg tggtgacagt 360
gtgtaaccag ccaacagtgt ggaggctcaa caaggtaggg tcagggttct ggtttgtgag 420
caccagtggg gaccctaag atactactag caagttcaag attgagaggc ttgaagggga 480
tcatgcttat gagatctaca gtttcaagtt ctgcccaggt gtgcctgggt cgctgtgtgc 540
tcctgtggng actnttgaag atgctgatgg aa 572
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<210> 8794

<211> 560

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220096h12d1

<400> 8794

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cactctccga gagcattttg tgcactactg gggtgaaaat gtatttggtg gagagcaaag 120
gaggtgccat aacatgcatg ttcttggtc ttttcttctt ggggacatgg cctgctcttt 180
tgactatggt agaaaggcgt ggtcgtcttc ctcagcatac ctaccttgat tactcaatca 240
ccaatttctt gtctgcttta ctcatgctt ttacacttgg tgggataggc aagggcactc 300
atgatcagcc aaatttctta gttcaacttg ctcaggataa ttggccctcc gttctttttg 360
caatgggggg tggctctgtc cttagccttg ggaatctgtc aagccaatat gcatttgctt 420
ttgttgggct atctgttact gaagtgatca cggcaagcat aactgttggt ataggcacia 480
ccttgaatta ctttttggat gacaaaatca aaaaaactga gatccttttc caggagtggg 540
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ttgccttttg attgagtttt

560

<210> 8795
<211> 161
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220097a02a1

<400> 8795

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attetgcatt actatcaatc atacttcaat actatcacac taccaaaaat ctataattat 120
ctaattnnnnn nnnccgcgcg tcgtactgag acagctatga c 161

<210> 8796
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220097a03a1

<400> 8796

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attatgtggg taaagggtgtt ggcaccatag cagatgaacg caaaggaggg tttattcatc 120
tcccagagccg tccatagcatc aatgcaaagtg gggttcttgg ccaaattattg tttgatgttt 180
gtgtgccccaa gaatgttgag gattggtgta tcagggtcaaa ttccaagaat gcactagtag 240
caggtacaag gaagcatggt ccatttaatc cgataaaaatg cattcggcgt tcaagggttgt 300
aagattgttg tgttgactga cagaagctta aggagaatta tgcttggaag gttgtgttgt 360
cttcaagggtt caaaattttt agggagatct aatgggcaaa agagatgtgt agtagtatta 420
atacctgaaa taagaggcta acggactata taggttacca cctaagctgt tcttttagca 480
ctgtggactt ggtaatgtga ttgagc 506

<210> 8797
<211> 304
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220097a03d1

<400> 8797

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acgagtgccca ataaacaact ttctattctt aggtccttaa ttagggtaat acggacacta   60
gtttagcattt gctaaagaaa tagcatgccc aacagggaca aacaagtcta tgacatgctc  120
cattaagggga gaaaaaaciaa gggcataaat ttcactttga atgtttgggt gatcaacacc  180
ctataactaa tatatacaga tggctctgtg tatgctttta taaaaaacac aagttacaaa  240
agggggaatta aaagttcaaa gaataatgga attttcagac atgcgccagc ctcccctgga  300
gaaa                                                                    304
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<210> 8798

<211> 275

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220097a04a1

<400> 8798

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aggcaacgac catgcttata atatgtctag atatatagcg acatccaatt ctaaaacggg   60
gatcccatga gaatggagac gcagcacact gtaaaaaacg agtgcgccga tattcgatga  120
ctagatggca gaaccaacg atgaatatcc gccttgtgtg tcgaaacaat agagcgcggc  180
atgatcctcg cttgtgggtc ccaacaagca aaaggtgtgt tcaatatact tgggaggaaa  240
aacagcacag aggggactta aattcaaaga gaagt                                     275
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<210> 8799

<211> 437

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220097a04d1

<400> 8799

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gtggagcccg gcacccttta agccaagagg aatcaaacia aggttcggtt gtaaggagcg   60
gtttttcttc ctccatcttt ctctaaaaca ttaatggaac tctccattcc ttagatttca  120
ccaacgagct caccaccaca cagacaaagc aatggcaaag actgagttag aggtgactgt  180
tgagagcaag aacaaagaac taaagcacct gggatttgag aagattgccg atgatcaaac  240
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tcttgcgagg gcgtcgaaca tcgatgagta cccaacggac aagtctctgc ctgtgagatc 300
 acgtgttggg accgttgtca aactgtgac caccgtcttt ggtcctggct gcaacaaatg 360
 caaggacttg cctgatgacg tgcaagggtta tgtcgacaga aagggtgatg atgctttcaa 420
 cagttggatg agcatgc 437

<210> 8800
 <211> 578
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220097a05a1

<400> 8800
 aatttatata ggaatcacat tagctgagta tttcagagat atgggttata atgtcagtgt 60
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 agaaatgcct gcagatagtg gatatacctgc ataccttgct gcacgttttag cctcgttcta 180
 tgaacgtgct gggaaggtaa aatgtcttgg aggccctgaa cgtacaggta gcgtaactat 240
 tgttgggtgct gtttcgccac ctggaggaga tttctcagat cctgtgacat ctgcaaccct 300
 gagcatagtt cagggttttct ggggttttga caaaaagctt gctcagagga agcactttcc 360
 ttctgtaaac tggtttatatt cttattcaaa atactcaacg gcacttgaaa ccttntatga 420
 gcaatttgat ccagatttta tcaacattag gacaaaggct cgtgaagttc tgcaaaggga 480
 agatgacctg aaatgaaatg ttcagcttgt gggcaaggat gcttttagctt gaagagataa 540
 gatcaccttt agaacttgca agcttttgag agaggata 578

<210> 8801
 <211> 492
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220097a05d1

<400> 8801
 aatatatata ttgaacatat gattctataa ggtatatttt atctttacaa agtaaaacat 60
 aaaactagaa atgggttaaaa atctgttgca tactatcaag gcagaataca cgttctgaaa 120
 gggatatagat tcagtctact gtactttata tatagatcaa accctcaaag ccacctgggc 180

ttgccatgaa atcttctctt tccctgccct atttgatcca tccccaacac ttctacaggc 240
 agccgagagc ttgatgtcgc tgtgctgctc gtcagtcgca actctttgtg tactttctctt 300
 tggttcttca atcctcatgg cctcaactgtt cccctgcaat tctcctctt ctctcgaaat 360
 ctggttcaag tcgaaaaatg gagttacact cttctttgtg gcttccttgc tgctgtgaat 420
 cctttctttg tgattcaact caaacaactgg tggagcagaa ccgttaaagg aagcatcttt 480
 ttactagaa ct 492

<210> 8802
 <211> 506
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220097a06a1
 <400> 8802

cgttttcggtt agaaaaaaaa aaaggatggt tatacatctg aatatcaatc ttgcatgggg 60
 gcatggcctc aaaaacatcc accaacagca cccattattc tctacccgag atcatatcaa 120
 accgaaatcc tgacacaaaa taggtgcgga tactgaacac gacactaagc gatggcggaac 180
 aagcccctgg aactggcatg acgaccgatc agaaaatata aattgctcta cagctcacia 240
 gagatcggtg cggaagttat ataagggggc tcaactttag ggacacagga agacttcaac 300
 gctgtcaaga tgataacgca agaagtgggc aacaactgtg acgctgatag ggatagttcc 360
 tgaaattgcg gccctatgta ggggcaatga caggacata acgagagcct gggaggctct 420
 aaagtatgcc aagagggcag agcttatgcc ttcatagca gtgagtgcga ttctcaagga 480
 atataagctc aatagaacaa agaaga 506

<210> 8803
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220097a06d1
 <400> 8803

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 ggggctttgg tgggaaaaat tctccattac tttgtttaac ccgttaaaaa gataacacct 120

taacatgaca taattgcttt tttgaataaa taggtttgta gtgtgaattc taacatttag 180
 gtgctagaat tctttcgaca aatacaaatc attcctttga atcgagcatt ttgtttaagg 240
 cgacaatata atcctatact tttgaagagt cggaaaagcc ctttttttga gtctccaatt 300
 agggggaata aatttttttg tcattcaaag caggagttcg tgacggctta gtttttgtac 360
 gatttacaac acgggtagta gcaattgcat cggagccttc tgt 403

<210> 8804
 <211> 546
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220097a08a1

<400> 8804

attcggatgat cactgatcag tgggttggtg ttgttgatag agaaaatgca ttccagccct 60
 ttgcttcttg aggaacccat taggatggca tccatccttg agccatccaa gcctactttt 120
 tttccggcta tgacgaaaat tgttggcaca cttggtccaa agtcacgata agttgatata 180
 atttcccatt gccttgatgc aggaatgtct gtggcaaggt ttgacttttc atggggatgat 240
 ccagaatacc atcaagagac attggaaaat ttgagagttg ctatcaaaaag taccaagaaa 300
 ctctgtgcgg ttatgctaga tactgtgggt ccagaattac agattgagaa taagactgat 360
 caccatca cccttgaagc agacacatta gttgtcttaa ctccagatca aaataaagaa 420
 gctagttcaa atctcttacc attaaatttt accgggctat caaaggctgt gaagaagggt 480
 gatactattt ttattggaaa atactcgttt actggaagtg aaacagcttc tgtatggctg 540
 gaggtc 546

<210> 8805
 <211> 365
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220097a11a1

<400> 8805

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 cgagaactcg ttggttattg atgtgtctgt gccctcctgc gacctatact tcactcggcc 120

caatgacgct gctccgaagg cgcagaagaa cttgatcagc tatggtggcg ccgttgggta 180
 tcgectgatt gccaacattg aggccgctt atagacctgc acctaccca tattgtggca 240
 gttctgttac aactattgca gctccactct ccttgggtgg ggcgaccgtt actacaaagg 300
 cgacgacgac aaagccaagg cagaggccaa ggccgaattc acctacgccg tcgaacagga 360
 ccacc 365

<210> 8806
 <211> 285
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097a12a1

<400> 8806
 aagaatgccc atcttctctg caacattggg ctcgtgcact agagacatgg ctaccttgct 60
 ctcacagga cacctttctc ctttcgcgaa gacaccttgc caatggcagc atcactatca 120
 cactgatgat gcttggacga cgcctataac tatacccgat tggcggagtt ggtgggttatt 180
 actggattgg gaacaatgga ctgcctaccg gaggagctgg tgccggaata cgtgggtgat 240
 atggcggaag tgggtggactt ggtggaggtc tcagcagacc taccg 285

<210> 8807
 <211> 565
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097b01a1

<400> 8807
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 tctccagaaa aaagggtcac tggatgctga ggagcagggtt ggaaaggctc atgcacgtgc 120
 tggatgaacta cagaagcagg tggacaagct taaaagggaa ctagaaacac aaaacaagga 180
 gaaagtgaac tgggaaactc gagtacctga gttagagaaa aagattcatg acttgaactc 240
 aaaattagaa gatcttcaaa agataaatga ggaacagaag aaaaaaattc aaaaaactga 300
 acgtgctctt aaagttgctg aggaagaaat ggtgaatgca aagtttgagg ctactgccat 360
 agaaaaagag ctgagggaga ctcatggtgc ttggcttgcc ccttggcttg ctgttcacta 420

tattcatagt aagtcttttg ttgatagtca ttggaacaaa catgggaaac ctgcttttga 480
aatgggttact caaaaggccc tagagaaaaa ggcacaagct ggaaagaggg ctgaacctca 540
tgtgggaacc attaaaacta aatgg 565

<210> 8808
<211> 448
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220097b01d1

<400> 8808

gattctaata aacatacatt atgaggaaac atttttacta tgtcaagaat ttaagaaaat 60
aaaaccagca ggaaaaggga gtgcaaggtc taataacaaa tataacaaag tgataaactg 120
ataatacata aacacctaaa catattgtgt gcccttttct acagtgaaac atcctaaagt 180
tacctcacc caaaaaagag aagtaaaata ttcaaaaccc cacacgacag gaaagataca 240
tccccctcaa taagcccgtg cgaacaggaa aaattatcta aactttccag ggaaaaaaat 300
aaagcaggaa ccaacttcat gttgtgtgct tgtctagatg cctcgcctta tgtttacgtc 360
gtgcatgggtg attgtttcca tttcgagcag gtttattcac ttttttgcta cagaaaacag 420
ctgaaaacac tctagccact aaaataat 448

<210> 8809
<211> 533
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220097b02a1

<400> 8809

ctacaattag aaaccctaag aggcattggg tgtggcagct ccaagctgga ggatctacgg 60
gcagtggccc tttgcaggga gcggtgtggt ttctttgacg aagcaattca ccagcgctac 120
gcactggccg cagatgacat ggcctacatc aactccctca aggcacttgg tcaactcctta 180
caccttttca ttcagcaaga catggatgct cctacctctc cctctccctc cccctcccct 240
tctccccctc acaaaccctt caaacacgcc tcttcttttg actccgactg cgacggctct 300
caccttcaact tacactccga ctccgacttc gaccacgtac actgcctcca ccattcccct 360

gatccatgct ctccctctggc tcaccatctt catatgaatt acatgaagaa taaagccgct 420
 ccttcaattg tctacgagca gaggcctctg agtccccaaa ccatgtactt gggagaggcc 480
 tactcttgct cctccttttg cccttaccag tatccccctt acccctaccc cta 533

<210> 8810
 <211> 334
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097b02d1

<400> 8810

aaaaagggaa tctggccaaa aatttaactt aaaaacgaat gtttttttac gggaaccaat 60
 aacccccatg ctttttagggg ggggggttac tccaatttta ctgattaaat tggggccttt 120
 tataaaatga cttgccaggg gggggggttt tatacccgaa aggcgcacct tttcctttat 180
 tttttttttc aaaggccaaa agaaaaaccc tttaaagtgt ccaatttggg ggccccctt 240
 cccctgtttt ttaacagcac aactttactt ggggccttat agcgctggat acccaaaaag 300
 gaactgggcg cctaaaaccc caaacttttt tttt 334

<210> 8811
 <211> 556
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097b03a1

<400> 8811

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 cacccttgag gtggaaagct ctgacaccat cgacaacgtc aaggccaaga tccaggacaa 120
 ggaaggaatt cccccggatc agcaacgtct catcttcgcc ggaaagcagc tcgaggacgg 180
 ccgtaccctc gccgactaca acatccagaa ggagtcaacc cttcaccttg tccttcgtct 240
 ccgtgggtggc atgcagatct tcgtcaagac tctcactggc aaaaccataa ccctagaggt 300
 cgaaagctct gacaccattg acaacgtcaa ggccaagatc caggacaagg agggaaatccc 360
 ccagaccag caacgtctca tcttcgccgg aaagcaactt gaggacgggc gcaccctcgc 420
 cgactacaac atccagaagg aatcaaccct tcacctcgtc ctccgtctcc gtggtggcat 480

gcagatcttc gttaagaccc tcaccggcaa gactataacc ctagaagtcg agagctccga 540
caccatcgac aacgtc 556

<210> 8812
<211> 231
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220097b03d1

<400> 8812

gaaaagggaa aaaaaaattg ttttgccccc ggtccttcca attttaacat ttaaagtggg 60
gaacgggggg gattttctga cttggccaac aatccggggc cagggttggt ttgaaaaaca 120
acctttaagc cactggaaag ggtagtttt aactggtttt ttggggccat tgtgctaaac 180
atgaacggca cccgggaagc attcctcaa ggaaaaagg gggcccccc g 231

<210> 8813
<211> 517
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220097b04a1

<400> 8813

ctagtttagt tatctactct tttctgcatg tttgttctct caacgactcc tccgcgaaag 60
agtattattc aatattttgg ttgggttgaa tcccgggggt gaagcgttgc agacatcacg 120
gctattctaa gagtgtctcg ctccctcatt catgtccgat ctgtacgacg gaggacgggt 180
agttgcgtaa ctgccgttaa cccttcgccg cacgggtgggc gtggtgcttt gccttctgaa 240
ggtagtagcc cttcagactt gctcttcctc gctgggtggg gtttcttcta gtttcttcac 300
tcttttcatt acttttagcc tgcatagttt taaataagaa aaaaaaaca gcgactttgt 360
gactagttaa gatcaccgnt tcttcttctt cttcttcttc ttcttcttct actactacta 420
ctactacttt tctccacaa aatgatgctc aaaatcaaga gggttccac tgcgtttcc 480
aactaccaa aagacgacgc tgcagactct cctcgtc 517

<210> 8814

09531113.032200

<211> 62
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097b04d1

<400> 8814

gacattgtta gtgacatggg ctattaatag gagggcctta ctacggagca ctaaaggctc 60
 cc 62

<210> 8815
 <211> 446
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097b05a1

<400> 8815

cggctcgagg cacttcttct gccattgaag aagaaccogt taaaccatca gtgcaagtgg 60
 aacacaccca actcttaatt gatggaaaat ttgtagatgc tgcttctgga acggcaaagg 120
 atcttgttgc gcgcagctga tctgcttgag aagcataatg atgagcttgc agcacttgag 180
 acttgggata atggaaagcc ttatgaacaa gctgctaaga ttgaagttcc aatgcttgtt 240
 cgctgattc gatactatgc tggttgggca gataagatcc atggtctaac agttccagct 300
 gatggaccat atcatgtgca aacattacat gaaccaattg gtgttgccgg tcagatcatt 360
 ccttggaaact tcccttttct catgtttgcc tggaaagttg gaccggcatt ggctgtggc 420
 aacaccattg ttctaaaaca gctgag 446

<210> 8816
 <211> 526
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097b06a1

<400> 8816

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 caatgtctct caccattccc tccaacctct ccaagcccgc cgcctccgc cccaaactaa 120
 gcccaaagct aaggtccgcc gccacaacca ccacgtctg cagcaccacc aacaacaaca 180

acaacaacaa cgtgtcctcc gacctgaagg cgttctccgc cgcgtggcc ctctcctcca 240
 tcctcctctc cgcctctctc cccgcggcg cgcacatctc ggggctcacc ccatgcaagg 300
 agtcgaagca gttcggaag cgtgagaagc agtcgataaa gaagctggag tcgtcgctga 360
 agctctacga ggcgggcagc gccccgcac tggccattaa ggcgagcgtg gagaagacga 420
 agaggaggtt cgacaactac gcgaacaggg gttgctgtgc ggcggcgatg ggttgccgca 480
 cctgatcgtg agccgagacc agaggcactg gggtagttc atcaca 526

<210> 8817
 <211> 311
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097b06d1

<400> 8817
 agcaagaact cttcttacat taattgaatt ggaagatgag gttgattgtg gttcacatgc 60
 attagattac atcatatcat gtaccattta taaaaaaagt aattacaaaa agagcgcgta 120
 aagatcccat ccacatacaa attctccagg ctttctcca atgtagccat ccaccctctc 180
 ttatctagac atccttggca atgaggtcgc cgttgatgag ttctctgtag gcagcaacgg 240
 gccagctgaa acccctgaag agcaagcgag aagccagaag aacatcgatg atgatctcct 300
 tgcattggggg g 311

<210> 8818
 <211> 560
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097b07a1

<400> 8818
 ctcgagccgc aataattcag aaatgttact gcaaacatta gctatcccta caatactcgt 60
 tgtgatattc atatgggtgg tacaacaaa gcaacgtcat gggaagattg caccaggtcc 120
 caaggcgttg ccaattattg gtaacctcca catgctaggg aaactccgc accgcaccct 180
 tcaaaccttt gcaagaaaat atggacccat aatgtccttg aagctagggc aagtccaagc 240
 catagtggtt tcctcccctg aaaccgctga actattcctc aagacccatg acactgtttt 300

tgcaagcagg ccaaagattc aagcctctga atatctctct catggcacca agggcttggt 360
gttttccgag tatagcgctt actggcgcaa agtgaggaga gtgtgcaccc ttcaacttct 420
cagtgttca aaagttgaca tgtttgctcc tttgaggaga caagaattgg gagtgtagt 480
gaagtcactg agaaattcag cggcattcac tgaagttgtg gacctcagtg aggtgttggg 540
ggagcttatg gagaacatag 560

<210> 8819
<211> 435
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220097b07d1

<400> 8819

ggaatgtcat atttcttggtg tttttgtagc tagttctttt cttgttaata caatattttg 60
ctaataaaag attaaaaatat attttggatt ctaaaaatta tgataagtga tgtgacaaaa 120
aaatatgata actggaaaaa attaggcaaa gcaatatgat aaataaaaata aaataaaaaat 180
aataaattaa aattttgaat gtaaattgat gtgtgtgtag gtgaaaagta tgctattgta 240
caagtcaact catgaattgt actcacaaa aaatctcaac gtgaattctg gaccatacaa 300
agtatatcct atggtatcag ttttcttttc ttttatttta aatcttaatt agtacatcaa 360
tattaatgta aggcgtgtgt gtgtgttgaa gtacgttggt ggaaaagtat gctattgtac 420
aagtcattctc atgaa 435

<210> 8820
<211> 552
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220097b09a1

<400> 8820

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acatgtcgac tctgggaagt caactaccac tggtcatttg atctacaagc tcggaggtat 180
tgacaagcgt gtgattgaga gggtcgagaa ggaggctgct gagatgaaca agaggtcatt 240

002220097b07d1

caagtatgcc tgggtgcttg acaagctcaa ggctgagcgc gaaagaggaa ttaccattga 300
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 acatcgtgac tttatcaaga acatgattac tggtagctcc caggctgatt gcgctgtcct 420
 tatcattgac tccaccactg gtggctctga agctgggtatt tctaaggatg gacagactcg 480
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 gatggatgcc ac 552

<210> 8821
 <211> 337
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097b10a1

<400> 8821

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 caggacgtgc accagcgcac cgccgagctc aagaactggt tgggagccgt tgttgcttac 180
 cagcaatcgt gcctggacgg cttcgacacc gacggcgaga agaagggtgca ggagcagctg 240
 caatctggga gcttggacaa cgttggaaaa ctactggct tggcactcga tgtcgtgtca 300
 gggatttcac acattctcca atccttgac ttgaacc 337

<210> 8822
 <211> 309
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097b11a1

<400> 8822

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 tgaggattat agcaatggtc atggtggtgg tgggtgtgagg gacttgtatg gagaggattg 180
 tgccactgag gaccagctta tcaactccatg gactttctct gtggccagtg gatgcagttt 240
 actgagagat ccacgctaca acaaagggtt ggcctttacc gagggagaga gagatgctca 300

ttacttgcg

309

<210> 8823
<211> 477
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220097b12a1

<400> 8823

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aatatgatcc gaatttctcc acacactata tagcaagttg ggtgacagac agtgtgagag 120
acaactgtgc ttcttgtagc taccagtacg actttgtcaa cctaacgtat ctaaggtaat 180
atgtagcata atagatgcc aaggtactca tgcagccttt aatgccccac cttattaatt 240
tctctagcta gcaatgcaga ctttagcata caaaagccat cttggtcttg gtcacactgt 300
atgtacacct gtacctagct agccatgtaa ttgaggtagt cccaccacag aacattttta 360
ctttttttat tagggaaaat atttaaaaca ctggctcgaa ttctttgagg aagatttttt 420
gccacgtga tagaatcatt cttggatcaa actgatgctt tctttctaag aatttca 477

<210> 8824
<211> 501
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220097c01a1

<400> 8824

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atcattggta tagcaaaaac tggttctggt aaaactgctt cttttgtact tcctatgatc 180
gtgcatatca tggatcagcc tgagcttcag aaggaggagg ggcccatagg ggtgatatgt 240
gcacctaccc gagaattggc acatcagatt tttctggagg ccaagaaatt tgcaaaagcg 300
tatggggtag gtgtctctgc tgtctatggt ggaatgtcaa aacttgaaca gttcaaagag 360
cttaaggcgg gatgtgagat agttgttgct acccctggca gattgataga catgctgaag 420
atgaaagcat tgacgatgat gagagcaact tacctgggtgc ttgatgaggc tgatcggatg 480

tttgatcttg ggtttgagcc g

501

<210> 8825
<211> 337
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220097c01d1

<400> 8825

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gggggctttt tttatccaga cataatcaac ttttggcttg ccctaaatat aggaacattg 120
atcccttggg cagggggggg cattcaagg gacaactttt tatcccaacc gggggggccc 180
cccctttttt taggttaaaa actggtcggg cttttttgac caggatttac ccataacct 240
tgacgggggg aaataccctt tgatgtacca ggattggggg aaccactcct ttgataagtt 300
ttttttgcac caccaattga cccccggat acaaaac 337

<210> 8826
<211> 483
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220097c02a1

<400> 8826

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aatcgcgatt gttctgtgcg agagaaagaa gagagagatc gaaaatggcg ttggctttcg 120
acgagttcgg aaggccgttc ataatcctga aggagcagga gcagaagagc agactccgag 180
gattggacgc tcagaaagcc aacatctccg ccggcaaagc cgtggctcgc atgctccgaa 240
cctacctcgg ccccaaaggc atggacaaga tgctgcagag ccccgacggt gacgtcacca 300
tcacgaacga tggagccacc atccttgacc agatggacgt ggacaaccaa atcgcgaaagc 360
tgatggcgga gctctcgcg agccaggact acgaaatcgg cgacggaacc accggcgctcg 420
tcgtcatggc cggcgcgctt ctcgagaagg ccgagcgctt tctcgagcgg cgaattcacc 480
cca 483

<210> 8827

<211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220097c02d1

<400> 8827

gttaagacta cgaactaaga caaatTTTtca ttccgcctac aaacaaagat taaaacatct 60
 acaaaaacaa ctaatccata atgatcaata tcaaaagcat agcaattgca acaaaaacaaa 120
 aacaccaat tccgatacaa accgggcca aatcttacct ttcaagtga cgtacggact 180
 gactacaaac aaaccaattg aaacaaaata ctatcaccaa ttcagcatct tgacgtataa 240
 catgactgag tttaaaaata tcagtactca tatggggaaa tgacatcatc gattttcagt 300
 atcatcttga caacttgagt agcaagtaag agctgttgct gctttccgat caaagtttcg 360
 aagacatttt gtcacgcat gtcattagt ccaacatcat tacaatcaat gccaaagtga 420
 gggttattat cctttatttg ctgagactta acagcagata at 462

<210> 8828
 <211> 590
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220097c03a1

<400> 8828

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 ttgtgggaag aagtgcctct acaatccccg aaactgatga taaaaaaact ctggctgaca 120
 atgatatggg aagaagtgcc actacagttc ctgaaactga tatccaaaaa actttgcttg 180
 ataatgttac aggaagcaga gacagtgaac acaatttgct tgacactgtt acaggaggca 240
 gcgacagaaa atctcaagta cgatcaaata aaccccagag aaagaaagag gtcaaagtac 300
 ctatgcgggt atcaaagcga cttgctggcc ttgaacctga ggtagcgcct gctgaaagag 360
 ctattgaata ttcgactaga aaatcatgca aagaagaacc aactgcgact gctactttaa 420
 ctaatggagt gtctgaccat catgatgctg gggaagaaac taagcttact ccgcaagctt 480
 ctgacagttt gaaaacagaa gtactaggag aatcattaaa ccagagtggg aagtcagtgtg 540
 atgccccaaac tgggtgacaag gaacaattgc agaaagtga gctgaaaata 590

<210> 8829
<211> 89
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220097c03d1

<400> 8829

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcggacgg 60
gaaataaggg gcggccggcc cctggaatt 89

<210> 8830
<211> 589
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220097c04a1

<400> 8830

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taaactttat gctattgagg tggggtcttc agagagaatt ctatcgttct catttgggaa 120
atgctgtctt agcagagggtg tttcaggcac tacatacatc cggcaagtga tttatgggga 180
agaccgttta ctattgtgc agtcagaaga gactgatgaa ctcaaatgc tacatcttaa 240
gcttcagatt tcttatatct cccaaaactg gcctgttcaa catgtggcag ctagccagga 300
tggtcatgtac ttagctgttg ctggtcttca tgggttgata ttgtatgata tacgattgaa 360
aagatggaga gtatttggag atgttactca ggagcaaaag attcagtgtg aaggtttgtt 420
atggctgggg aagattgtcg ttgtctgcaa ctatgttgat tcatcaaata cgtatgaatt 480
gctcttttac ccaagatata accttgatca aagctcatta ctctgtcgaa aaccattgct 540
tgctaaacca atggtgatgg atgtgtacca agattatatg ctgcttaca 589

<210> 8831
<211> 247
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220097c04d1

<400> 8831

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 ccatgagcca taacatttct tcttaaaacg cttgggaaaa tccgacatag actatcacac 180
 ccaaatgccg ctccagctta aaacccctca cgaagacgct ccaccacgtg ccgagttgac 240
 tccttttc 247

<210> 8832
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220097c05a1
 <400> 8832

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 ggtgacttgc cacaagaacc ttttaagcaaa tctgcagcag ttggaggatt gagatgctat 120
 gagaatccaa agaataagat tactgcaata cctgctgagg aagaggaaat ctgggggtgca 180
 ttcttcaagg cggaagggtc agcagtcctt gcagycacag agtaaaagat tcattttcaa 240
 atgaagtacc ttttgacggg gggaggcggg aatgtgctta tgtgcttgag acggcatagg 300
 cttgcatgcg ggggccagta aaaaacctct catgataact atgagaagaa tgtgactggg 360
 agtaaagtct atcatggggg tcattagcta ggatttc 397

<210> 8833
 <211> 89
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220097c05d1
 <400> 8833

gtatccccgc cttgccagac taatccgggt cgacagctac tactacctgg tctccttttt 60
 cttttatttt tattttatttt tatttaacc 89

<210> 8834
 <211> 400
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097c06a1

<400> 8834

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taggtggatt tgatagcggg gctttcgatg gaaaacatga tcataacagc tctattaagc  180
actttgcact cgatgactgg aggtgggtatt gcctgactag gagtgtgcta cattgggtatt  240
gcactgttca taactgcaca gattgctttc cagctacttg cacagcgtat ataccatatt  300
gagagagctt caaaaggaga gaagggaagc tgcaagaatg aacgttctgc ccgacactcc  360
atatgctgta ttcggattag tcattgcgca ggcaattggt   400
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<210> 8835

<211> 469

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220097c06d1

<400> 8835

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agggtttggg tttttcactt tcagcctctc cattccttca acctttcttct tctctttgat   60
ctctgatgga gacgttccgt gtttagtagc aagggttagt tgaggccttg tgtttggaaa  120
cgtacggtgt cgttttggag ttgggaaaac aaataattct gagagatggc aaccacgaac  180
ccttttgatt tgttgggtga cgacgctgag gacccttctc agctcatcgc cgccgagcaa  240
ctcaaggcgg cggctgctgc tgcggtgcc accgccgctc ccaagaaggc gccggctcag  300
cagatcaagc cggctcagct ccctagcaag cctcttctc cggctcaggc tgtgagggat  360
gccagaaatg agtctgttcg tggaggccgt ggaggtggac gaggtgtggg acgtggattt  420
ggacgtggtc gtgggttttag tcgtgactct ttcaatgacg agaactcat   469
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<210> 8836

<211> 316

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220097c07a1

<400> 8836

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 tagatccact cctccccctt atttgcttgc agatgccatt gggggtaact ctgctgctgc 120
 ggcttttagtt ctttttcatt tttatgtgcc aaaaaagag tctctaactt acattacttc 180
 cattgattca tagttttgtt tggccctttt ttccttaatt tttttaaact ttaatgtgac 240
 ttgttggata atatatggag tagagtttgg atttaaaaaa gactgaaata aagtaagctc 300
 acataaatta aaaact 316

<210> 8837
 <211> 216
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097c07d1

<400> 8837
 aaaaaccaga ctcttctcca tatattttcc aacatgtcac cttaaatttt taaaaaattc 60
 agggaaaacg ggccaaacaa aactatgaat caatggaagc catgttcggt ggagactttt 120
 tttttggcgc atcaaaatga aaaaaaacca aagccgcac tgctagaatc ccccccaacg 180
 gcatgtgcac tcaaattagg ggggggcgtg gattta 216

<210> 8838
 <211> 510
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220097c08a1

<400> 8838
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 ttcgccggaa cacttctccg aacgatcaat tttccggcat tctctccggc gattcttctc 120
 cgattattcc tcaatcagat ccatagctct cacaatctcc gaaccacttt ttttctctt 180
 ccagatccga atcccggcgc gaaaatccgg gaagaacgaa cgaaccgttc accgttgata 240
 catggattag catcacctcg atgaaaacct cttccacaag cgtctcacga aacgattcgt 300
 tttcctcttc cacaaaatca ccaccatcac catcaccatc accatcatcg ttcagtccta 360
 gggttagggt tttttgtca gtacgacaga atgttcaaga aaatcatgaa aggcgggcac 420

aagacgcccg ctaagtccga cgccagcgat ccggttccgc cgtcgtacgc cgnacgcaac 480
 cgtagcgctc cggcggctcc ctctgtcaat 510

<210> 8839
 <211> 435
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097c11a1

<400> 8839

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 ccaacgagct agttccgaca cagacaaagc aatggcaaag actgagttag aggtgactgt 180
 tgagagcaag aacaaagaac taaagcacct gggattgtg aggattgctg ctattcaaac 240
 ttttgtgatt gtgtcaaatc tgtatgagta cgcaaagcag aattctgggc ctttgagatc 300
 cgctgttgga acggttgaga aactgtaac caccgttctt ggtcctgtct gcaacaaatt 360
 caaggacttc cctgatgatg tcctgggtta tggtgacaaa aaggtggatg aaagcttcca 420
 caagttcgat gagca 435

<210> 8840
 <211> 288
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097c12a1

<400> 8840

ccgaaaaaaaa aataaaaacc ccttgggccc aaaaagccct tttttaaaaa ccgggtttca 60
 aaaaaccccc ctccccccaa aaatcccccc ttttgaacc caaaaccgt tggggggggg 120
 cccttctggc ccaaaaaaaaa tttttttccc caaaacccat tttgaaagac cagggtcgt 180
 ttttttttct caaaaaacaa ccgggggggg gcggaacccc cggtttttgg cccccctggg 240
 aactggatca aaggcccccc cccgccc aaaagggaaaaa aagggggtt 288

<210> 8841
 <211> 544

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220097d01a1

<400> 8841

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aaccgcattc ctgaccacac ttatgtccgc atcctggaca ccacgcttcg cgatggcgag  180
caagcccctg gagctgccat gacgtccgat cagaagctcc aaattgctcg ccagctcgca  240
aagcttggtg tggatgtcat cgaagggggc ttcccttcag cgtcacagga agacttcaac  300
gctgtcaaga tgatagcgca agaagttggc aacaactgtg acgctgatgg ttatgttctc  360
gtcattgcgg ccctatgtag gtgcaatgag agggacataa cgagagcctg ggaggctctc  420
aagtatgcca agaggccaag gcttatgcct ttcatagcag tgagtccgat tcacatggag  480
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gcac                                                                    544

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<210> 8842
 <211> 468
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220097d01d1

<400> 8842

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tgaatttata acttgaagtg tgaattctaa catttaggtg ctagaattct ttcgacaaat  180
acaaatcatt cctttgaatc gagcattttg tttagtgcag taatataagc ctctacactt  240
gaagtaacaa tatccactcc ttctccggta ccactaaatg ttggataaat aacgtttcca  300
ttcaaagcag gagtaggtga ctgcttattc tctctacgaa ttacaacacg thtagtagca  360
attgcatcgg tgcttctgt aactgtactt ggtgagtatt caagtacttt tacggtttcc  420
ttcactatga gattaatagc cttgtaagct gaatctactg gtcctaca                  468

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<210> 8843
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220097d02a1

<400> 8843

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 gttggagttt ttgtacaatg ccatttatgc gaacaactca cactccttgt tcttctacta 180
 cttgcatgtc ttacatgcac aatgatcatc cgcgaaatca gaatcacttt caatttggtg 240
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 atcaaacaac tgcacccaag agttgttata tgcgccctcc agctgggtgtt cttgcccttg 480
 gtgacagtat tattgccacc gtattc 506

<210> 8844
 <211> 443
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220097d02d1

<400> 8844

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 cttcatagca actttctagg ccactcaacc acgtgagaca gatcagatca gtgagctagg 180
 aattcaattt cagaacatac attgaagaaa attaagggct tgaccaaca aaaaggaaga 240
 aagaaatgct ttacactgaa tcaacacctt ggacctgctg ttgagccaag tatctttctc 300
 ttctttcttt ccattcatct ataacaaggc cctccccagc aacacaagga cttttctcct 360
 ccagtggttt ctttcgctgt tcaagtgcag cgtcggcctc agccaacatt cgttaaagct 420
 tatccaggac aggactaggc ttt 443

<210> 8845
 <211> 559
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097d03a1

<400> 8845

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 gctccagaga gagctctgtc cgttcaacct cgcgccggtg acatccaccg ctattcaaatt 360
 ggtgttcggc gacaccgtcg ccatcgcgct catggaggcg aggaattctc ccaaggagga 420
 gtacgcccg aaccatcccg ccggcaagat cgggaagagc ctcatcttca aggtgaagga 480
 tgtgatgaag aaacaggacg agcttccaat ttgcagagaa tcggatttga ttatggatca 540
 gctcgtggaa ctcaact 559

<210> 8846
 <211> 427
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220097d03d1

<400> 8846

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 tgtaggcgca attcccccca catgcaagcg catagagtgt ccagctatg atgtcattca 180
 cgtaggcaac ggctacgaaa tccgtcgcta taattcaccg gtttgattt caaacagccc 240
 cattcaggac atttctctcg ttgaagccac aagaaccggc ttcaggaggt tatttgacta 300
 tattcaaggt aagaataact acaagcagaa gattgagatg acagcacctg tgatcagtga 360
 agtattaccc agtgatggac cttctgtga gtctcattt gttgtgagct tctatgtgcc 420

aaaagag

427

<210> 8847
<211> 552
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220097d04a1

<400> 8847

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ccgtaggcat ggggatgcac caccaccgac ggtggcacca ccgcaaatga tgtattatta 180
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